

Live  
Multi-Purpose  
Recording / Post-Production  
Digital Interface Units  
Power Supply Units



# SOUNDCRAFT MIXING CONSOLES

## RANGE CATALOGUE





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# The Soundcraft Range

From live sound to post-production, Soundcraft mixing consoles are built to perform. With professional features, intuitive operation and uncompromised sound quality, Soundcraft consoles are relied upon throughout the professional audio industry, delivering optimum performance time after time.

Drawing from 30 years' mixing console design and manufacturing expertise, Soundcraft has developed a unique insight into professional audio requirements. World-class production techniques, combined with extensive testing procedures, ensure that every mixing console is built to the same exacting standards.

Soundcraft's **Live** range features both front-of-house, monitor and dual-purpose consoles, all designed to cope with the increasing demands of touring and theatre installations. From the highly-specified Series FIVE front-of-house console to the compact Spirit



Series FIVE at The Troubadour, West Hollywood



mixing control. A comparison chart on page 68 provides an at-a-glance guide to the range's features, simplifying the choice of console for any live application. Comparison charts are also provided for multi-purpose and recording/post-production consoles.

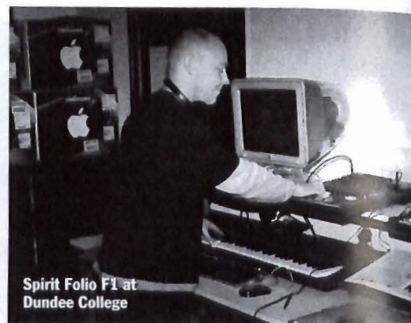
Soundcraft's **Multi-Purpose** console range combines professional facilities and sound quality with exceptional value. Suitable for stage and studio use, these consoles are ergonomically designed, achieving optimum performance from compact frames. One of the latest additions to the Soundcraft multi-purpose range is the Spirit E Series. With a special ES model featuring 10 stereo inputs and 4 mono inputs, as well as regular 6, 8 and 12 mono input frame sizes, the Spirit E Series encompasses a massive range of applications.



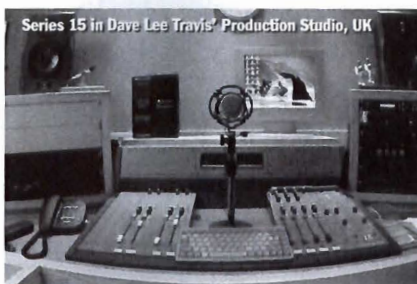
Spirit M Series in Sonicom Studios, Hertfordshire, UK

Powerstation powered mixer, Soundcraft live consoles combine lightness and strength, offering exceptional portability, great flexibility and unprecedented

Soundcraft's **Recording / Post-Production** consoles are used in a wide variety of applications, from location audio to multitrack music recording, and are easily expandable to suit even the largest production.



Spirit Folio F1 at Dundee College



Series 15 in Dave Lee Travis' Production Studio, UK

specialist B800 live broadcast and production console to the RM1d digital radio console, each delivers the high levels of flexibility and functionality required in the demanding broadcast environment. Please refer to our Broadcast Range Brochure for further information on these consoles.



324 Live at the Jerry Lewis Telethon, New York

Designed for the varied requirements of on-air, TV and radio production, Soundcraft's **Broadcast** consoles are fully modular. From the

Soundcraft also manufacture a range of **Digital Interface Units** and **Power Supply**

**Units**, featuring high quality components and circuitry throughout for exceptional reliability.

This technical catalogue contains features, specifications and block diagrams on individual Soundcraft consoles, digital interface units and power supply units. For further information, please contact Soundcraft for a product information CD (see the following page) or an individual product brochure, or visit the Soundcraft website at: [www.soundcraft.com](http://www.soundcraft.com)

The inclusion of artists in this publication does not imply endorsement.

## ALSO AVAILABLE

Additional information can be found by requesting an information number of guide quickly find the

## PRODUCT INFORMATION

Our Product Information compatible and The information picture and bring together with broadcast CD features highlighted with product and

## THE SOUND CRAFT GUIDE TO



## SOUND CRAFT

Our website at provides a great Here you can find brochures, use application guide advertisement for all sales, te

For further information on +44 (0)17



## ALSO AVAILABLE FROM SOUNDCRAFT

Additional information about the wide range of Soundcraft products can be found by visiting our website at [www.soundcraft.com](http://www.soundcraft.com) or by requesting an individual product brochure. We have also produced a number of guides and information CD-ROMs, designed to help you quickly find the information you need straight from your desktop.

## PRODUCT INFORMATION CDs

Our Product Information CD and Product Images CD are PC and Mac compatible and are designed to run on any standard web browser. The information CD features product summary pages, which contain a picture and brief description of each console in the Soundcraft range, together with brochures, technical data and user guides. The images CD features hi-res, lo-res, greyscale and web-optimised images, along with product and corporate logos.



## MIXING GUIDES

To help you get the most out of your Soundcraft console, we have produced two booklets – The Soundcraft Guide to Mixing and The Spirit Guide to Digital Mixing. Each guide contains information on choosing and using your mixer and sound equipment, together with connection and setup guides, mixing techniques, sample applications and troubleshooting. These guides are also available on the Product Information CD as PDF files.



## SOUNDCRAFT WEBSITE

Our website at [www.soundcraft.com](http://www.soundcraft.com) is updated regularly and provides a great source for all the latest news from Soundcraft. Here you can find useful information in the form of downloadable brochures, user guides, technical data sheets, mark-up sheets, application guides, software updates, logos, images and advertisements. The website also contains contact information for all sales, technical support and service enquiries.

**For further information, please contact our Marketing Department on +44 (0)1707 665000 or via email at [info@soundcraft.com](mailto:info@soundcraft.com)**







## REAR PANEL

- Now equipped to handle 16 separate monitor mixes
- Fully modular frame sizes: 24+4, 32+4, 40+4, 48+4, 56+4
- Flexible Auxiliary Bus structure (with up to four stereo sends for in-ear monitoring) allows use as FOH, Monitors or a combination
- 8 Group busses with 12 Aux busses in total (FOH mode)
- 16 Monitor busses (configurable as 16 mono, 12 mono/2 stereo, 8 mono/4 stereo) in Monitor mode
- LCR panning on inputs
- Semi-parametric EQ on stereo aux outputs
- Integral 20x8 Output matrix
- 8 VCA groups and 8 Mute groups
- Snapshot automation and MIDI control
- Integrated control of dbx DriveRack and BSS Varicurve

<b>Frequency Response</b>	XLR Input to any Output ..... +0/-0.5dB, 20Hz - 20kHz
<b>T.H.D. (@+10dBu)</b>	XLR In to Direct Out ..... < 0.006% @ 1kHz < 0.01% @ 10kHz XLR In to Mix Out ..... < 0.006% @ 1kHz < 0.01% @ 10kHz
<b>Noise</b>	Mic Input E.I.N. (22Hz-22kHz, unweighted) ..... < -128dBu (150Ω source) Mix Output Residual Noise (no inputs routed, Mix fader @ 0dB) ..... -90dB Mix Output Bus Noise (48 ch. routed, faders @ -∞, Mix fader @ 0dB) .< -84dBu Grp Output Bus Noise (48 ch. routed, faders @ -∞, Grp fader @ 0dB) .< -84dBu Aux Output Bus Noise (48 ch. routed, sends @ -∞, Grp fader @ 0dB) .< -85dBu
<b>Crosstalk (1kHz, +20dBu Input signals)</b>	Input Channel muting ..... > 102dB Input fader cutoff ..... > 100dB Input pan pot isolation ..... > 60dB Mix routing isolation ..... > 102dB Group routing isolation ..... > 88dB Group-group crosstalk ..... < -90dB Group-Mix crosstalk ..... < -90dB Mix-group crosstalk ..... < -95dB Aux send off ..... < -93dB
<b>CMRR</b>	Mono input ..... -85dB @ 1kHz
<b>Oscillator</b>	63Hz to 10kHz/Pink Noise, variable level
<b>HP Filter (Mono Input)</b>	30-400Hz, 12dB/octave
<b>EQ (Mono Input)</b>	HF ..... 1.2kHz - 20kHz, ±15dB, shelving Hi-Mid ..... 750Hz - 12kHz, ±15dB, Q = 0.5 - 3.0 Lo-Mid ..... 75Hz - 1.2kHz, ±15dB, Q = 0.5 - 3.0 LF ..... 35Hz - 550Hz, ±15dB, shelving
<b>Metering</b>	Overbridge .... 8 VU Meters monitoring Group/Aux/Matrix, + 3 VU Meters monitoring Left Mix/AFL/PFL, Right Mix/AFL/PFL & Mono (centre) Mix + Peak LEDs Mono & Stereo Inputs ..... 12-LED bargraph + Peak LED

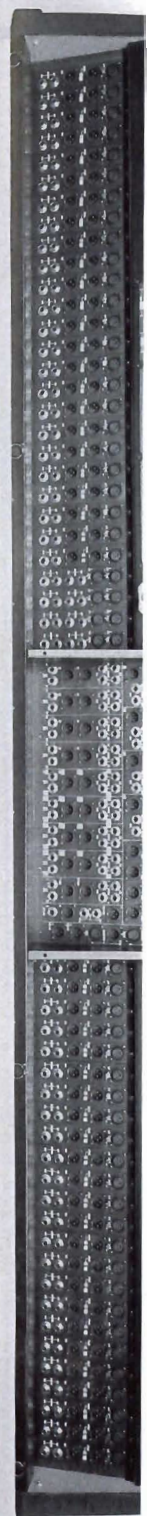
<b>Power Consumption</b>	48 Ch Console, each 17V rail takes 6.5A (nominal)(measured without Littlites connected) The 8V rail takes 0.5A (nominal)
<b>Operating conditions</b>	Temperature Range ..... -10°C to +30°C Relative Humidity ..... 0% to 80%
<b>Power Supply Unit</b>	Type ..... CPS800

## INPUT / OUTPUT SPECIFICATIONS

<b>Input &amp; Output Levels</b>	Mic Input . . . . .	+26dBu max
	Balanced Inputs . . . . .	+21dBu max
	Balanced Outputs . . . . .	+21dBu max
	Nominal Operating Level . . . . .	0dBu
<b>Input &amp; Output Impedances</b>	Mic Input . . . . .	2k $\Omega$
	All other Inputs . . . . .	> 10k $\Omega$
	Headphone Output . . . . .	50 $\Omega$
	All other Outputs . . . . .	< 75 $\Omega$

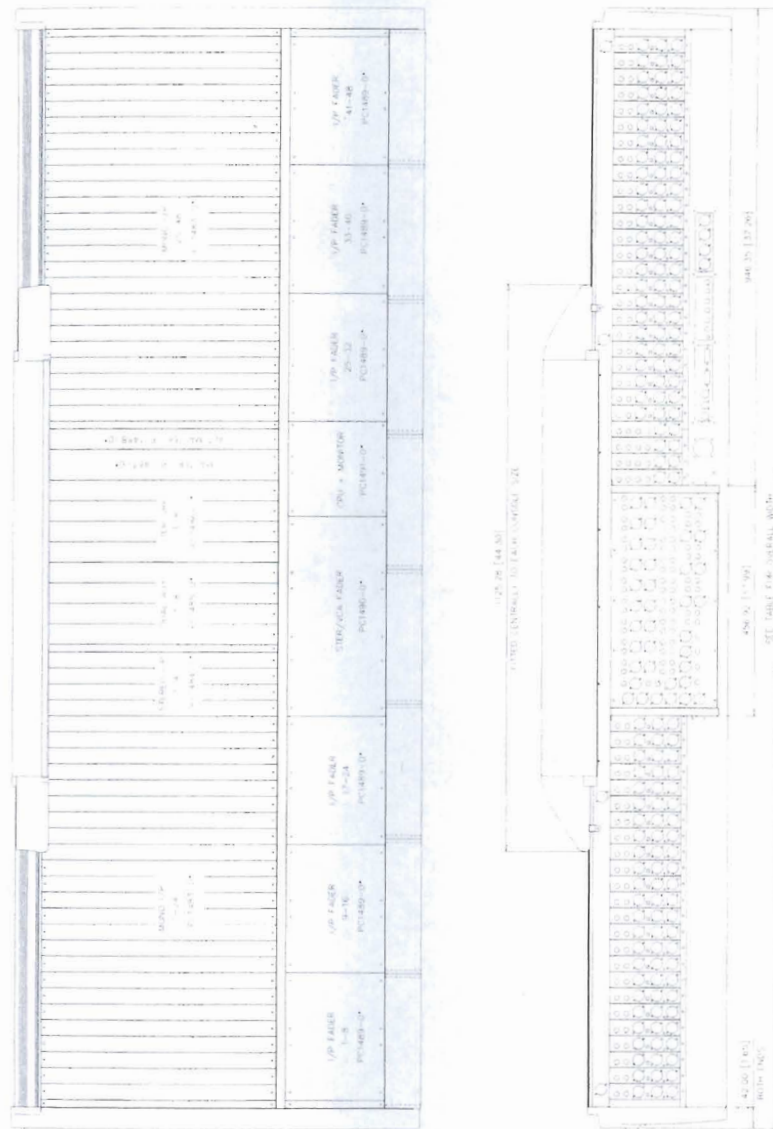
## DIMENSIONS & WEIGHT

<b>Height</b>	All frame sizes . . . . .	365mm (14.4"
<b>Width</b>	24 channel . . . . .	1446mm (56.9"
	32 channel . . . . .	1715mm (67.5"
	40 channel . . . . .	1969mm (77.5"
	48 channel . . . . .	2223mm (87.5"
	56 channel . . . . .	2476mm (97.5"
<b>Depth</b>	All frame sizes . . . . .	813mm (32.0"
<b>Weight</b>	24 channel . . . . .	76 kg (167 lbs)
	32 channel . . . . .	89 kg (196 lbs)
	40 channel . . . . .	102 kg (225 lbs)
	48 channel . . . . .	115 kg (253 lbs)
	56 channel . . . . .	150 kg (557 lbs)





oundcraft

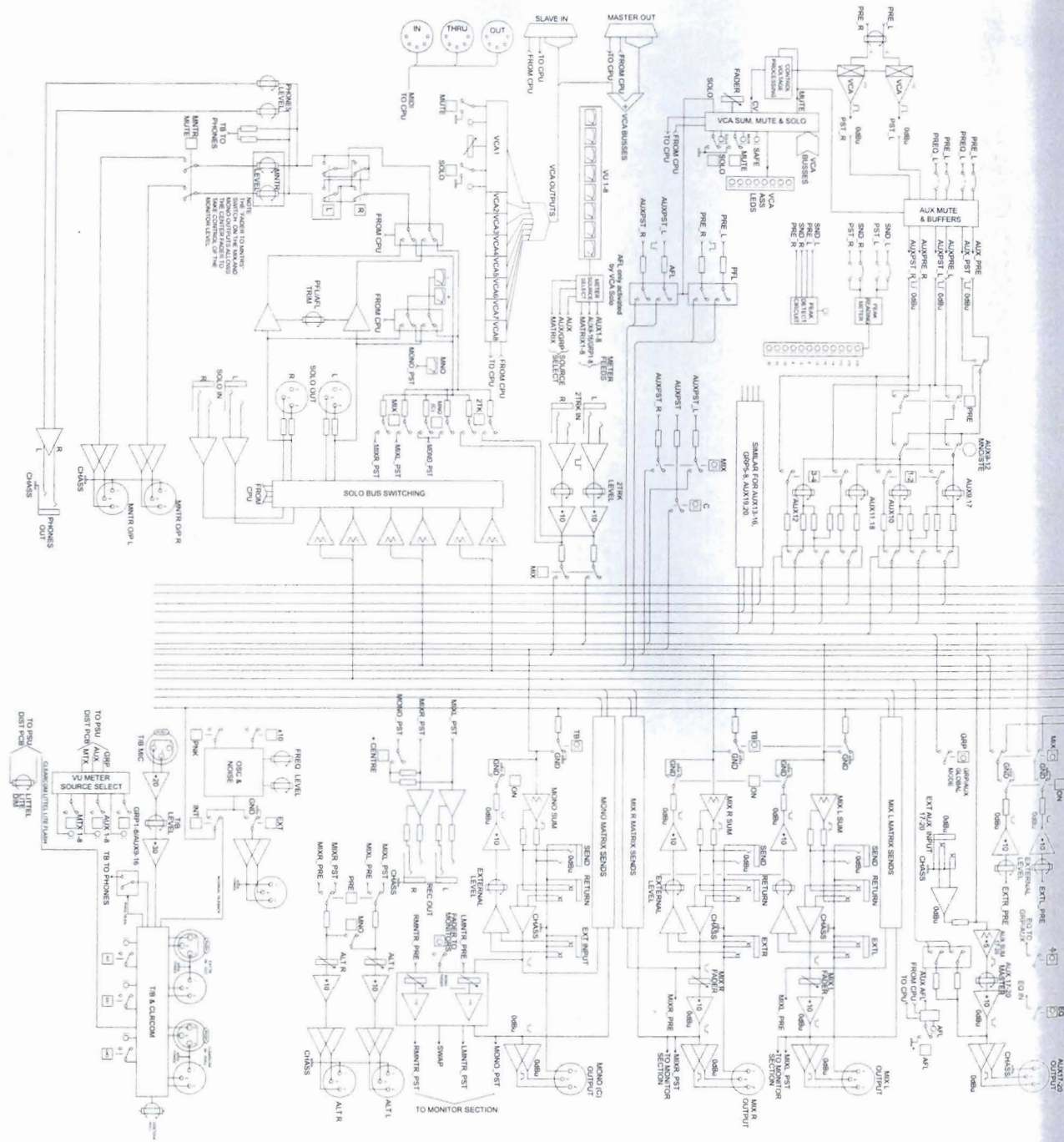


SUBFRAME FITTED TO 56CH CONSOLE ONLY

**NOTE: SUBFRAME FITTED ON 56CH CONSOLE ONLY**



# SYSTEM BLOCK DIAGRAM











## TYPICAL SPECIFICATIONS

Frequency Response	XLR Input to any Output . . . . .	+0/-1dB, 20Hz - 20kHz
T.H.D. (@+10dBu)	XLR In to Direct Out . . . . .	< 0.015% @ 1kHz < 0.02% @ 10kHz
	XLR In to Mix Out . . . . .	< 0.015% @ 1kHz < 0.02% @ 10kHz
Noise	Mic Input E.I.N. (22Hz - 22kHz, unweighted) . . . . .	< -128dBu (150Ω source)
	Mix Output Residual Noise (no inputs routed, Mix fader @ 0dB) . . . . .	-95dB
	Mix Output Bus Noise (48 ch. routed, faders @ -∞, Mix fader @ 0dB) . . . . .	< -85dBu
	Grp Output Bus Noise (48 ch. routed, faders @ -∞, Grp fader @ 0dB) . . . . .	< -85dBu
	Aux Output Bus Noise (48 ch. routed, sends @ -∞, Grp fader @ 0dB) . . . . .	< -86dBu
Crosstalk (1kHz, +20dBu input signals)	Input Channel muting . . . . .	> 95dB
	Input fader cutoff . . . . .	> 88dB
	Input pan pot isolation . . . . .	> 72dB
	Mix routing isolation . . . . .	> 100dB
	Group routing isolation . . . . .	> 99dB
	Group-group crosstalk . . . . .	< -92dB
	Group-Mix crosstalk . . . . .	< -100dB
	Mix-group crosstalk . . . . .	< -100dB
CMRR	Mono input . . . . .	85dB @ 1kHz
	Oscillator . . . . .	55Hz to 11kHz/Pink Noise, variable level
HP Filter (Mono Input)	30-400Hz, 12dB/octave	
EQ (Mono Input)	HF . . . . .	1kHz - 20kHz, ±15dB, shelving
	Hi-Mid . . . . .	750Hz - 13kHz, ±15dB, Q = 0.5 - 3.0
	Lo-Mid . . . . .	75Hz - 1.3kHz, ±15dB, Q = 0.5 - 3.0
	LF . . . . .	30Hz - 500Hz, ±15dB, shelving
Metering	All inputs and outputs . . . . .	Internal 12-segment LED bargraphs (24-segment for L/R/C outputs)
	Optional VU Meterpod . . . . .	8VU meters monitoring O/P Faders 1-8/Aux 9-12/Matrix 1-4 via bank selection, and L/R/C

- Semi-modular frame sizes: 24+4, 32+4, 40+4, 48+4, 56+4
- Flexible Auxiliary Bus structure with 2 stereo sends for in-ear monitoring
- 8 group busses and 12 aux busses (FOH mode)
- 12 monitor busses: 12 mono, or 8 mono + 2 stereo (Monitor mode)
- Swap mode allows fader control of Aux outputs in Monitor mode
- Integral 12x4 Output matrix, optional expansion to 12x8
- 3-band EQ on FX Returns 1-8, switchable to Group or Aux outputs
- LCR panning on inputs
- 8 VCA groups and 8 Mute groups
- Integrated control of dbx DriveRack and BSS Varicurve
- Integral LED bargraph metering for all inputs and outputs
- Optional VU output meterbridge

Power Consumption	Mains Power: 56 Ch - 600VA max., 24 Ch - 300VA 48 Ch Console, each 17V rail takes 8.5A (nominal)(measured with 4 Littlites connected). The 8V rail takes 0.2A (nominal)
Operating conditions	Temperature Range . . . . . -10°C to +30°C Relative Humidity . . . . . 0% to 80%
Power Supply Unit	Type . . . . . CPS800

## INPUT / OUTPUT SPECIFICATIONS

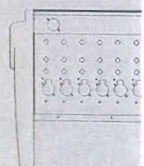
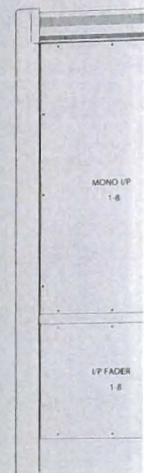
Input & Output Levels	Mic Input . . . . . +26dBu max. Balanced Inputs . . . . . +21dBu max. Balanced Outputs . . . . . +21dBu max. Nominal Operating Level . . . . . 0dBu
Input & Output Impedances	Mic Input . . . . . 2kΩ All other Inputs . . . . . > 10kΩ Headphone Output . . . . . 0.33Ω Recommended Headphone Impedance . . . . . 4-600Ω All other Outputs . . . . . < 75Ω

## DIMENSIONS & WEIGHT

Height	All frame sizes . . . . . 276mm (10.9")*
Width	24 channel . . . . . 1419mm (55.8")
	32 channel . . . . . 1683mm (66.2")
	40 channel . . . . . 1947mm (76.5")
	48 channel . . . . . 2211mm (87.0")
	56 channel . . . . . 2475mm (97.4")
Depth	All frame sizes . . . . . 813mm (32.0")
Weight	24 channel . . . . . 68 kg (150 lbs)
	32 channel . . . . . 80 kg (176 lbs)
	40 channel . . . . . 92 kg (202 lbs)
	48 channel . . . . . 103 kg (227 lbs)
	56 channel . . . . . 115 kg (253 lbs)

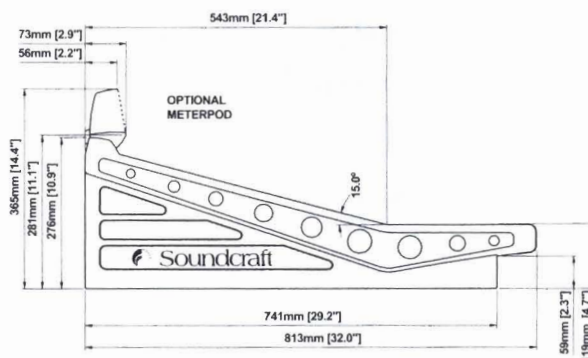
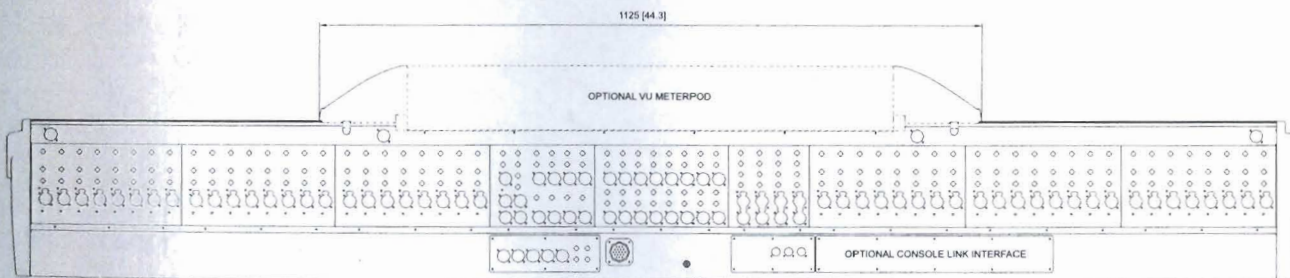
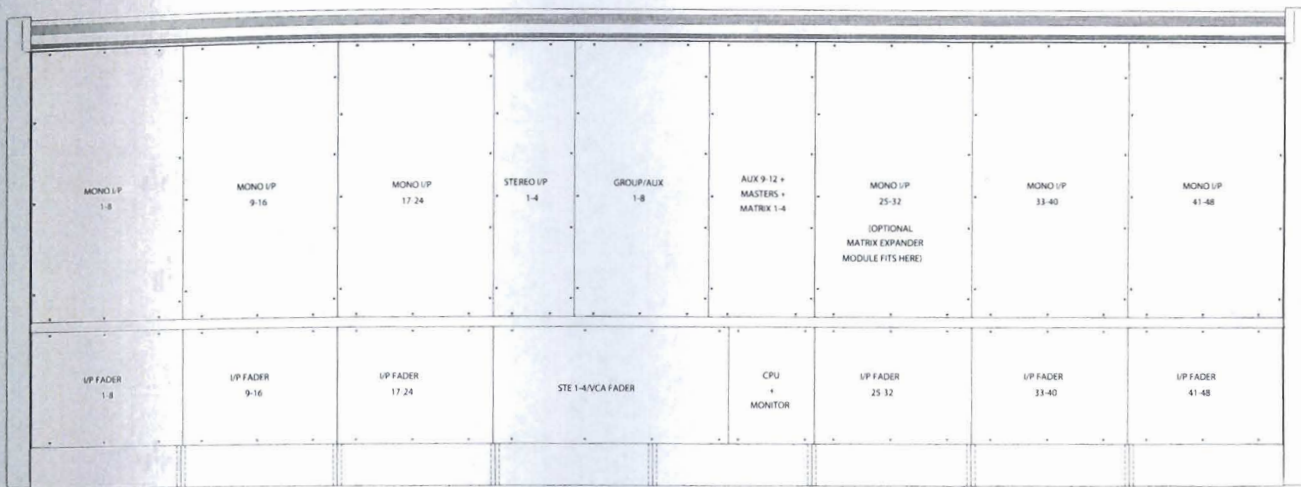
\* Excluding optional meterpod

## REAR PANEL



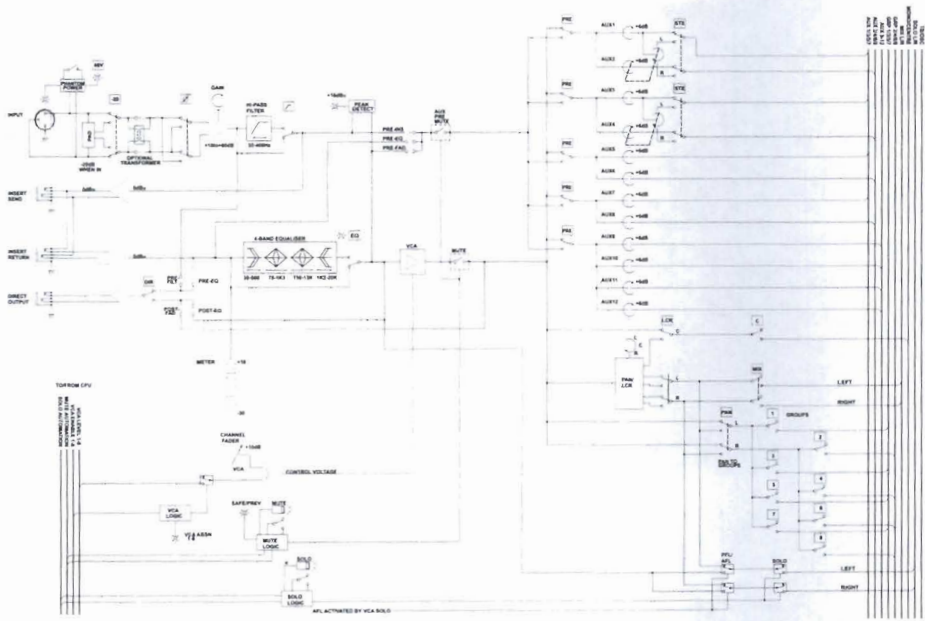


## REAR PANEL CONNECTIONS & DIMENSIONS

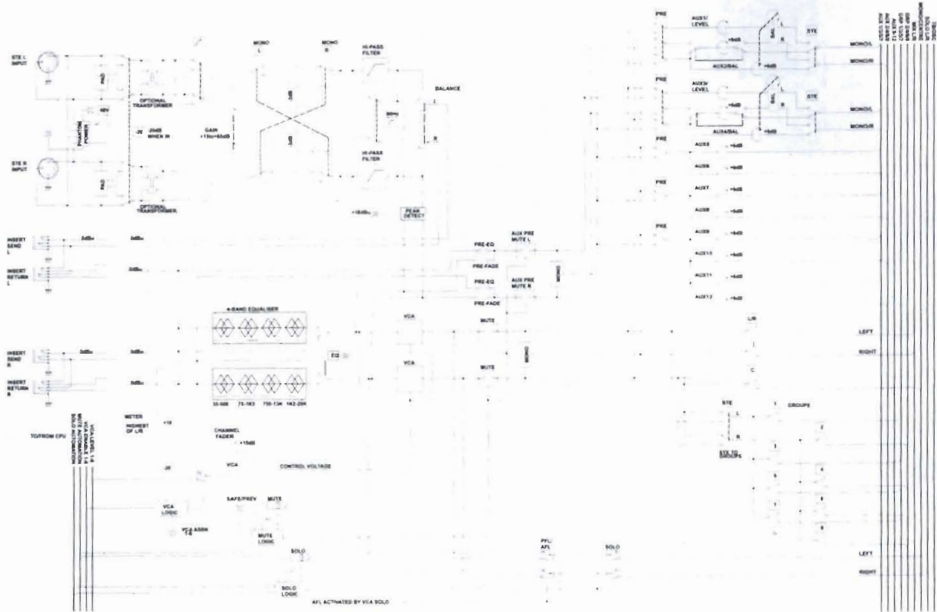




# SYSTEM BLOCK DIAGRAMS



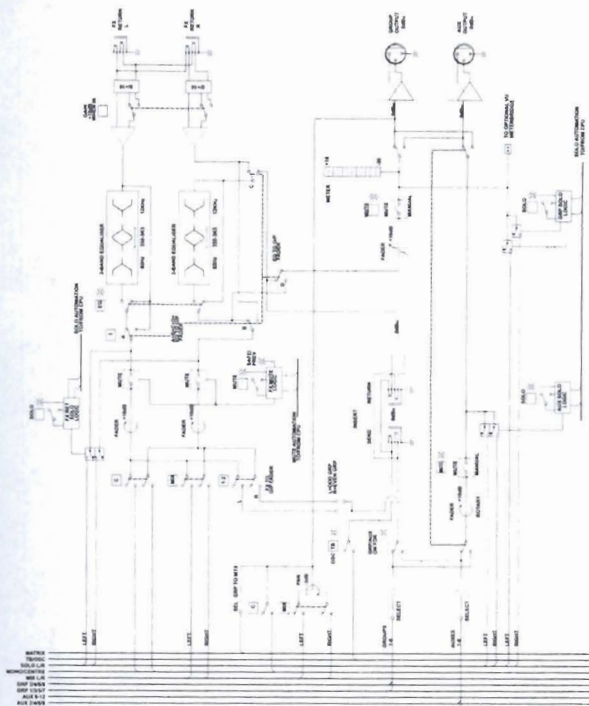
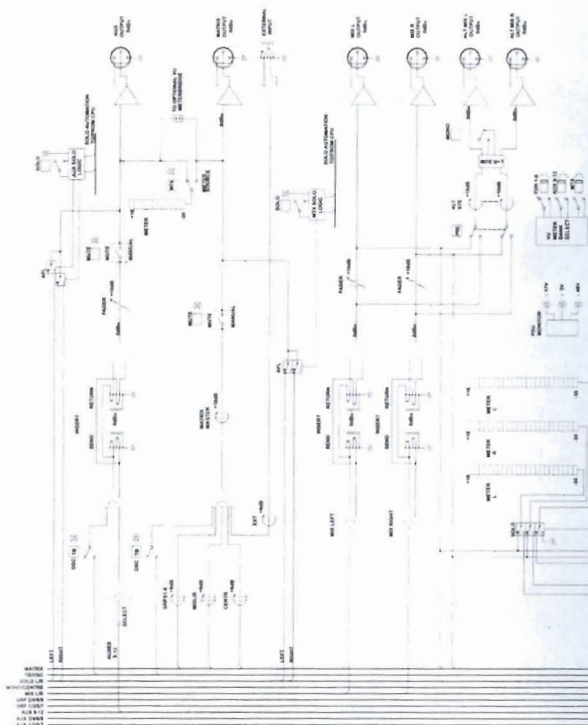
MONO INPUT MODULE



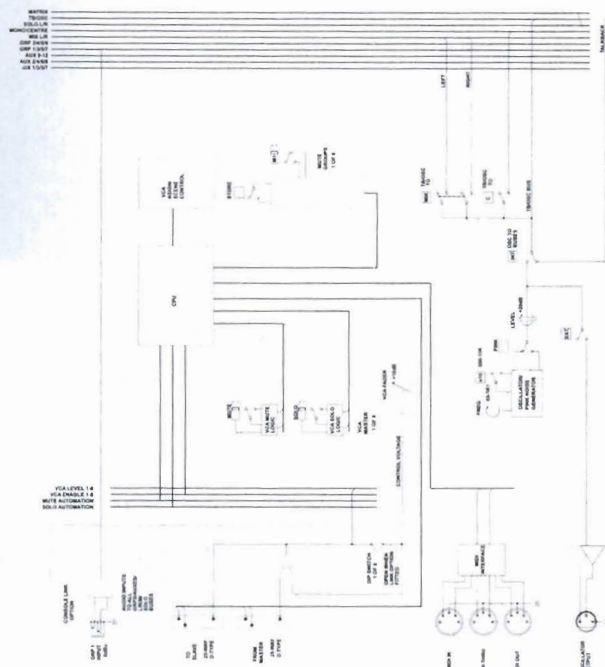
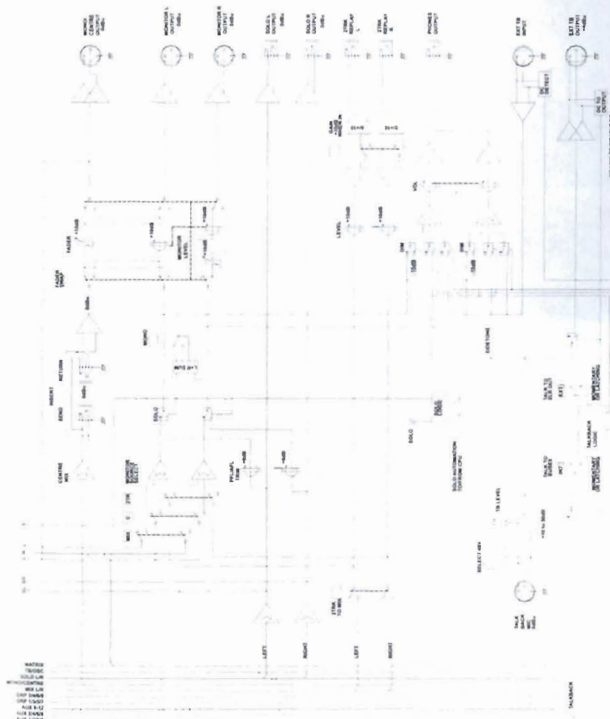
STEREO INPUT MODULE



## GROUP/AUX RETURN MODULE



## MONITORS, TB AND 'C' OUTPUT



## AUTOMATION, VCA SYSTEM AND OSCILLATOR



SERIES  
**FIVE**



- 10 VCA groups
- Built-in 16x10 output matrix
- 4-band fully parametric EQ on both mono and stereo inputs
- Sweepable filters on all input channels
- Input metering on every channel
- VU output meterbridge included as standard
- 8 mute groups plus 256 MIDI controllable snapshots of all input and output mutes
- MIDI program change transmission and DataFader continuous controller
- Switchable LCR panning as standard
- Compact, lightweight frame designed to withstand touring
- Rugged power supply with three year warranty
- 28 input expander frame available

## INPUT / OUTPUT SPECIFICATIONS

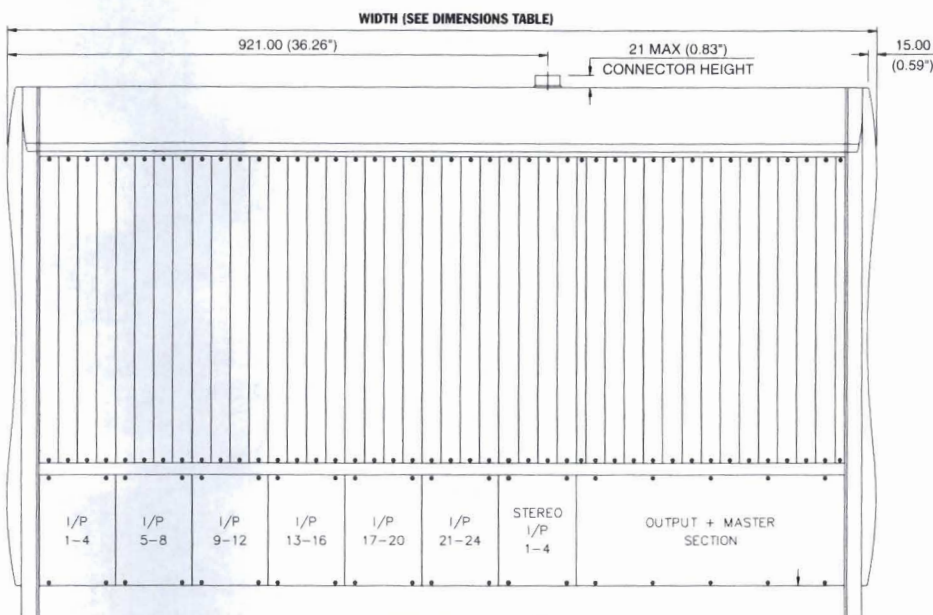
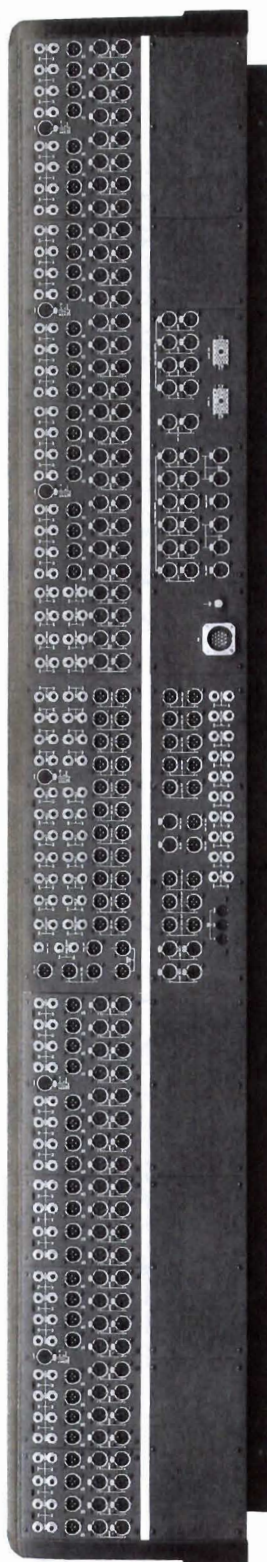
<b>Input &amp; Output Levels</b>	Mic Input . . . . .	+30dBu max.
	Balanced Inputs . . . . .	+21dBu max.
	Balanced Outputs . . . . .	+26dBu max.
<b>Input &amp; Output Impedances</b>	Mic Input . . . . .	2k $\Omega$
	All other Inputs . . . . .	> 10k $\Omega$
	Headphone Output . . . . .	50 $\Omega$
	All other Outputs . . . . .	< 75 $\Omega$

<b>Height</b>	All frame sizes . . . . .	388.7mm (15.30")
<b>Width</b>	24 channel . . . . . 32 channel . . . . . 40 channel . . . . . 48 channel . . . . . 56 channel . . . . .	1483.8mm (58.42") 1745.8mm (68.73") 2007.8mm (79.05") 2269.8mm (89.36") 2531.8mm (99.67")
<b>Depth</b>	All frame sizes . . . . .	914.0mm (35.98")
<b>Weight</b>	24 channel . . . . . 32 channel . . . . . 40 channel . . . . . 48 channel . . . . . 56 channel . . . . .	105 kg (231 lbs) 130 kg (286 lbs) 155 kg (341 lbs) 180 kg (396 lbs) 205 kg (451 lbs)

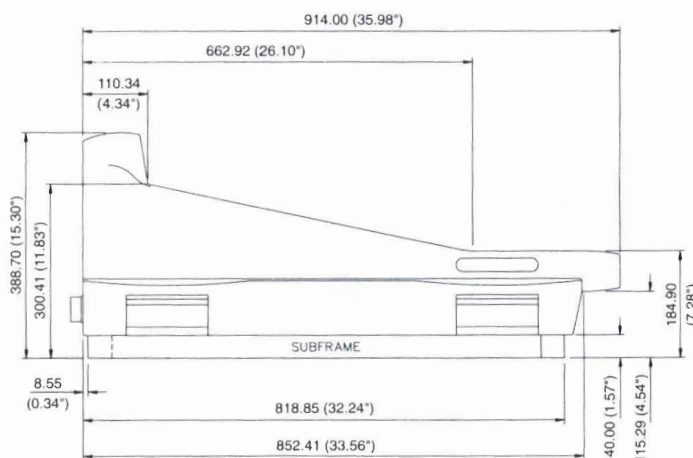
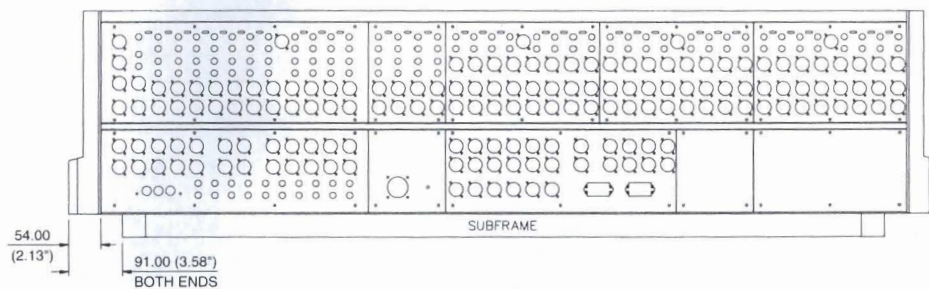




## REAR PANEL CONNECTIONS & DIMENSIONS

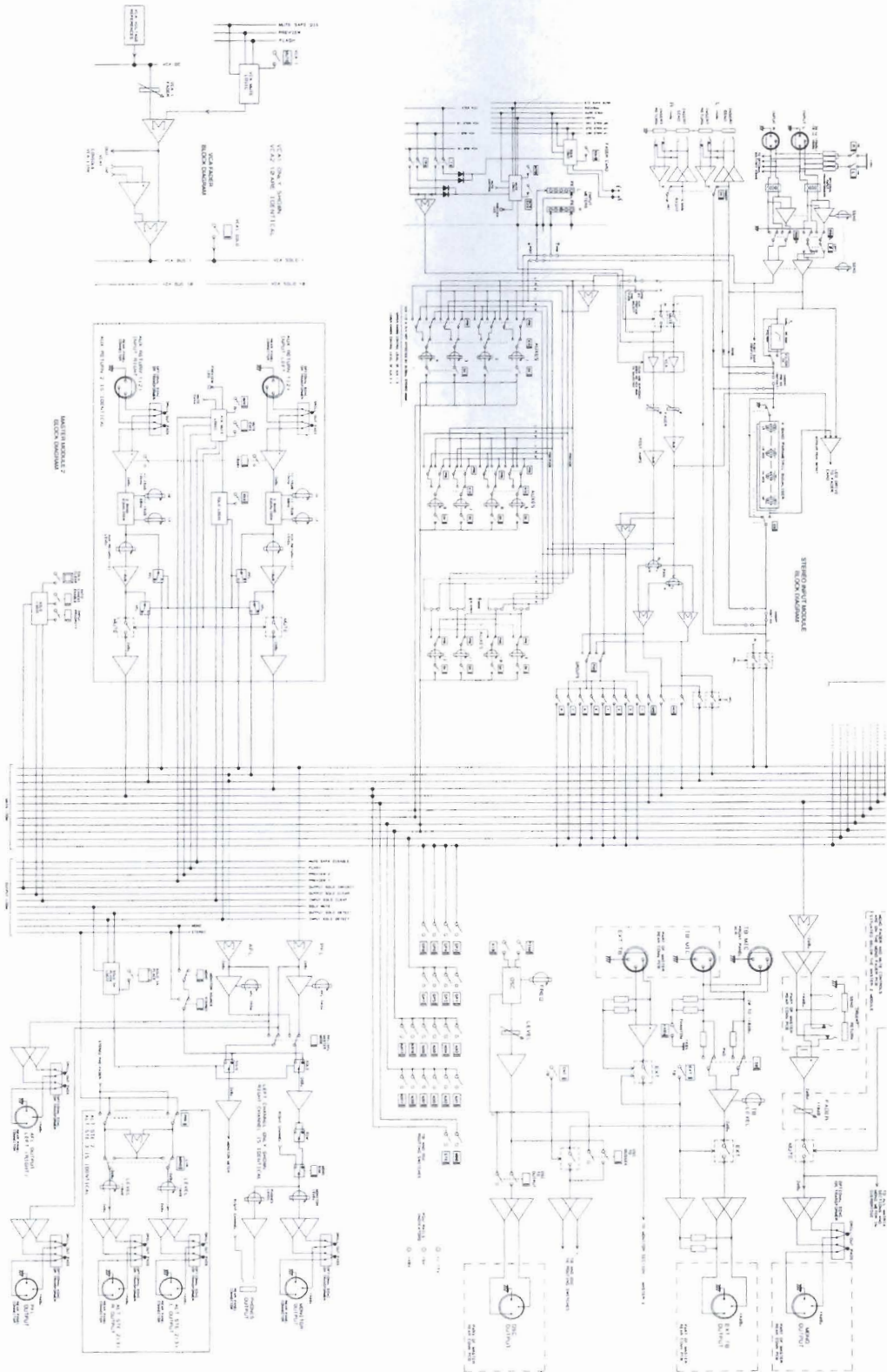


24 ch CONSOLE SHOWN  
Larger sizes have extra Mono Inputs  
on right hand side of Master Section

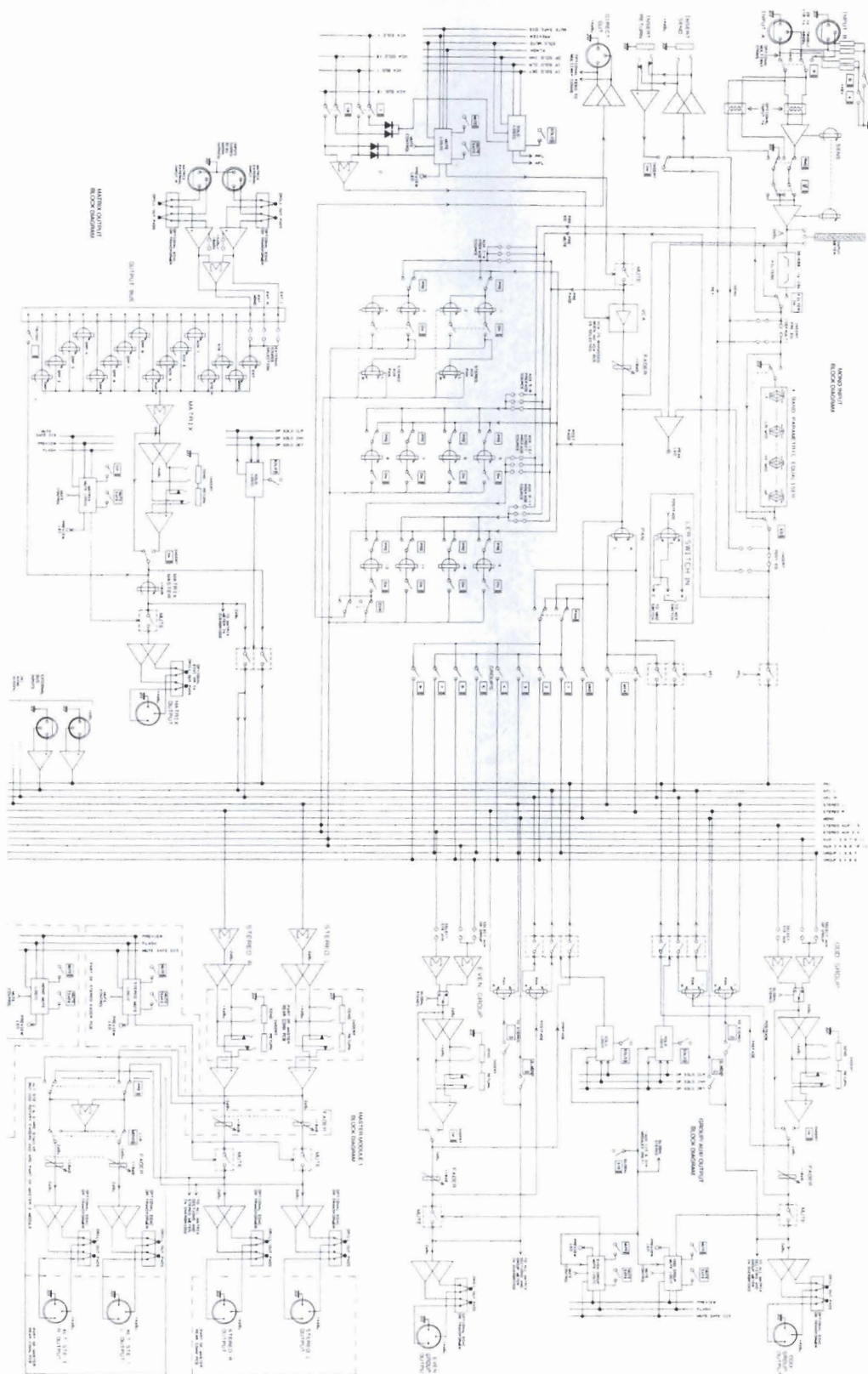




# SYSTEM BLOCK DIAGRAM









# k3 Theatre



SYSTEM B



- Modular 8-bus sound reinforcement console for live and installed sound applications
- Up to 48 channels into 8 subgroups
- 8 aux sends and 4 stereo returns
- Expandable 12 x 4 output matrix
- Unique MIDI controller fader for remote control of external devices
- 'C3' scene-set automation
- 'Range' mic amp
- Optional VU output meterbridge
- Aux sends switchable pre/post fader in pairs
- Input metering as standard

## TYPICAL SPECIFICATIONS

Frequency Response	Any I/P to any O/P (measured @ up to +50dB gain) .. +0/-0.5dB, 20Hz - 20kHz
T.H.D. (@ +20dBu)	High Impedance Input to Group or Mix Output ..... < 0.005% @ 1kHz
Noise	Mic Input E.I.N. (22Hz - 22kHz, unweighted) .. < -127.5dBu (150Ω source) Mix Bus Output Noise (24 ch. routed) ..... < -81dBu
Crosstalk (@ 1kHz)	Channel Muting and Channel Fader Attenuation ..... > 90dB Channel Routing ..... > 85dB Mono Input CMRR ..... -52dB @ 1kHz
Oscillator	63Hz to 10kHz / pink noise, variable level
Filter	HP ..... 100Hz, 12dB/octave
EQ	HF ..... 1kHz - 16kHz, +/-15dB, Q = 1.5 or shelf Hi-Mid ..... 400Hz - 7kHz, +/-15dB, Q = 2.6 / 1.3 Lo-Mid ..... 70Hz - 1.1kHz, +/-15dB, Q = 2.6 / 1.3 LF ..... 27Hz - 500Hz, +/-15dB, Q = 1.5 or shelf
Metering	8-segment LED input metering with peak LED on all mono inputs 4-segment LED input metering with peak LED on all stereo inputs 20-segment LED bargraph meters monitor output levels Optional VU meterbridge for 24-channel k3 consoles and above
Power Consumption	450W
Operating Conditions	Temperature Range ..... -10°C to +30°C Humidity ..... 0% to 80%
Power Supply Unit	Type ..... CPS275

## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input ..... +30dBu max. Balanced Inputs ..... +21dBu max. Balanced Outputs ..... +26dBu max. Ground Comp Outputs ..... +21dBu max.
Input & Output Impedances	Mic Input ..... 2kΩ All other Inputs ..... > 10kΩ Headphone Output ..... 50Ω All other Outputs ..... < 75Ω

## DIMENSIONS & WEIGHT

Height	All frame sizes, with VU meterbridge ..... 373.40mm (14.70") All frame sizes, without VU meterbridge ... 262.28mm (10.32")
Width	16 channel ..... 858mm (33.8") 24 channel ..... 1112mm (44.8") 32 channel ..... 1366mm (53.8") 40 channel ..... 1620mm (63.8") 48 channel ..... 1874mm (73.8")
Depth	All frame sizes ..... 795.80mm (31.33")
Weight	16 channel ..... 30 kg (66 lbs) 24 channel ..... 39 kg (86 lbs) 32 channel ..... 48 kg (106 lbs) 40 channel ..... 57 kg (126 lbs) 48 channel ..... 66 kg (146 lbs)

Quad Matrix Mod

Aux Master Secti



# SYSTEM BLOCK DIAGRAMS

Input Module

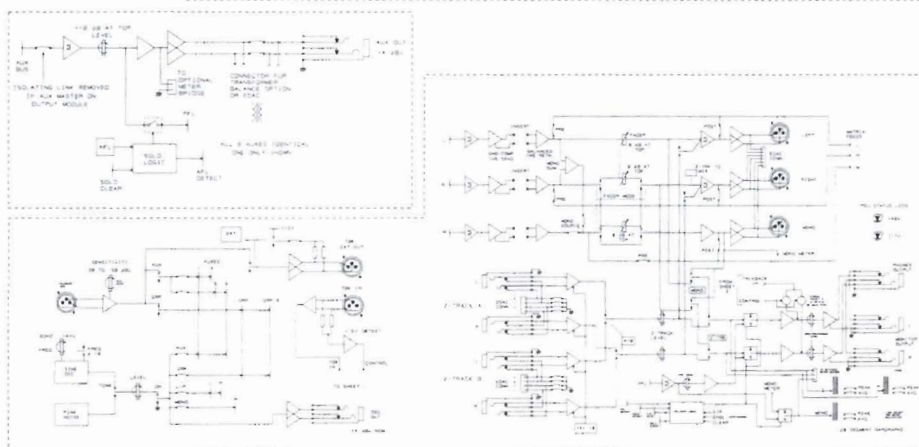
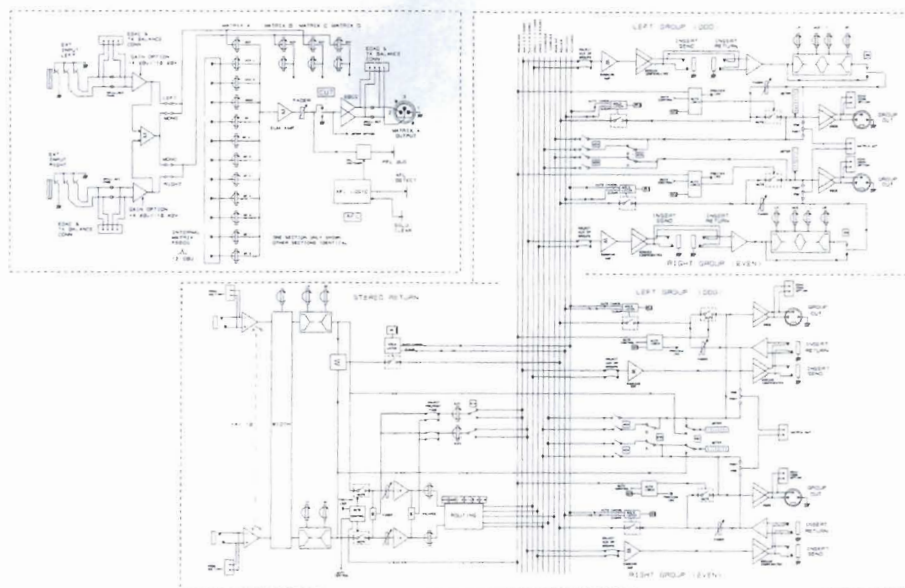
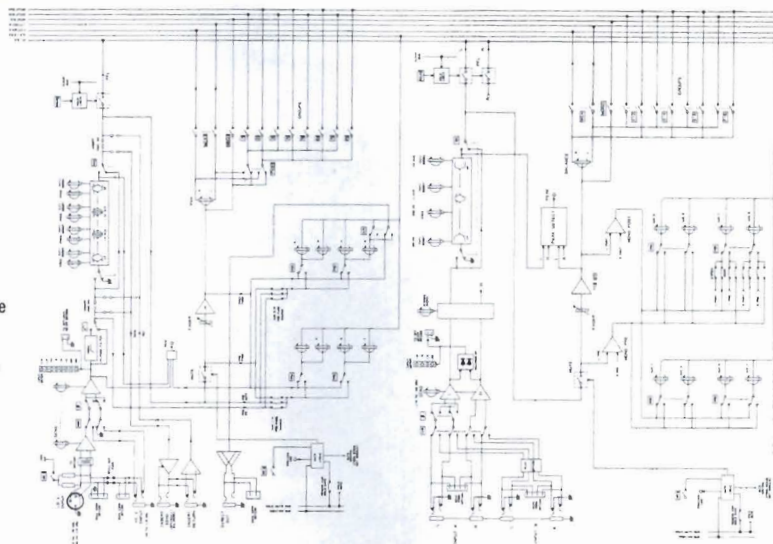
Stereo Input Module

Quad Matrix Module

Dual Group /  
FX Return Module

Aux Master Section

Master Module



..... +30dBu max.  
..... +21dBu max.  
..... +26dBu max.  
..... +21dBu max.

..... 2k $\Omega$   
..... > 10k $\Omega$   
..... 50 $\Omega$   
..... < 75 $\Omega$

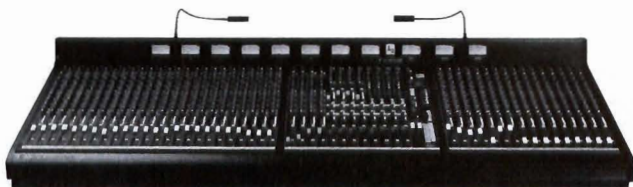
373.40mm (14.70")  
262.28mm (10.32")

..... 858mm (33.8")  
..... 1112mm (44.8")  
..... 1366mm (53.8")  
..... 1620mm (63.8")  
..... 1874mm (73.8")

795.80mm (31.33")

..... 30 kg (66 lbs)  
..... 39 kg (86 lbs)  
..... 48 kg (106 lbs)  
..... 57 kg (126 lbs)  
..... 66 kg (146 lbs)





- Professional 8-bus sound reinforcement console for touring or fixed installations
- Available in 24, 32, 40 and 48 channel frame sizes
- 11 x 4 output matrix
- 8 stereo returns (four on full length strips)

### TYPICAL SPECIFICATIONS

Frequency Response	XLR Input to any Output ..... +0/-0.5dB, 20Hz - 20kHz
T.H.D. (@ +20dBu)	High Impedance In to Group or Mix Out ..... $\leq 0.005\%$ @ 1kHz
Noise	Mic Input E.I.N. (22Hz - 22kHz, unweighted) ... $\leq -127$ dBu (150 $\Omega$ source) Mix Bus Output Noise (40 ch. routed) ..... $\leq -80$ dBu
Crosstalk (@ 1kHz)	Channel Muting ..... $> 90$ dB Channel Routing & Channel Fader Attenuation & Aux Send Attenuation ... $> 80$ dB Mono Input CMRR ..... $-52$ dB @ 1kHz
Oscillator	63Hz to 10kHz / pink noise, variable level
Filter	HP ..... 20Hz - 400Hz, 12dB/octave
EQ	HF ..... 12kHz, +/-15dB Hi-Mid ..... 400Hz - 12kHz, +/-15dB, Q = 1.3 / 2.7 Lo-Mid ..... 40Hz - 1.2kHz, +/-15dB, Q = 1.3 / 2.7 LF ..... 60Hz, +/-15dB
Metering	Overbridge 8 VU Meters monitoring Group/Aux/FX Returns/Matrix & 3 VU Meters monitoring Left Mix/Right Mix & Mono (centre) Mix/PFL/AFL Mono Input ..... 8-LED bargraph + Peak LED Stereo Input ..... 8-LED bargraph + Peak LED
Power Consumption	450W
Operating Conditions	Temperature Range ..... $-10^{\circ}\text{C}$ to $+30^{\circ}\text{C}$ Humidity ..... 0% to 80%
Power Supply Unit	Type ..... CPS275

- 8 mute groups plus MIDI control
- LED input metering and VU output metering
- 8 aux sends with external pre/post switching in pairs
- 4-band EQ with switchable Q and variable high-pass filter
- Monocoque frame combines lightness with strength and solidity

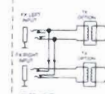
### INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input ..... +30dBu max. Balanced Inputs ..... +21dBu max. Balanced Outputs ..... +26dBu max. Ground Comp Outputs ..... +21dBu max.
Input & Output Impedances	Mic Input ..... 2k $\Omega$ All other Inputs ..... $> 10$ k $\Omega$ Headphone Output ..... 50 $\Omega$ All other Outputs ..... $< 75$ $\Omega$

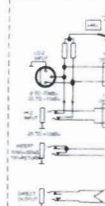
### DIMENSIONS & WEIGHT

Height	All frame sizes ..... 274.55mm (10.81")
Width	24 channel ..... 1247mm (49.09") 32 channel ..... 1503mm (59.17") 40 channel ..... 1735mm (68.30") 48 channel ..... 1967mm (77.44")
Depth	All frame sizes ..... 776.82mm (30.58")
Weight	24 channel ..... 40 kg (88 lbs) 32 channel ..... 50 kg (110 lbs) 40 channel ..... 60 kg (132 lbs) 48 channel ..... 70 kg (154 lbs)

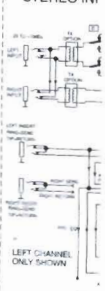
### SYSTEM BL



FX RETURN  
AUX 1-4 M/  
GROUP 1-4

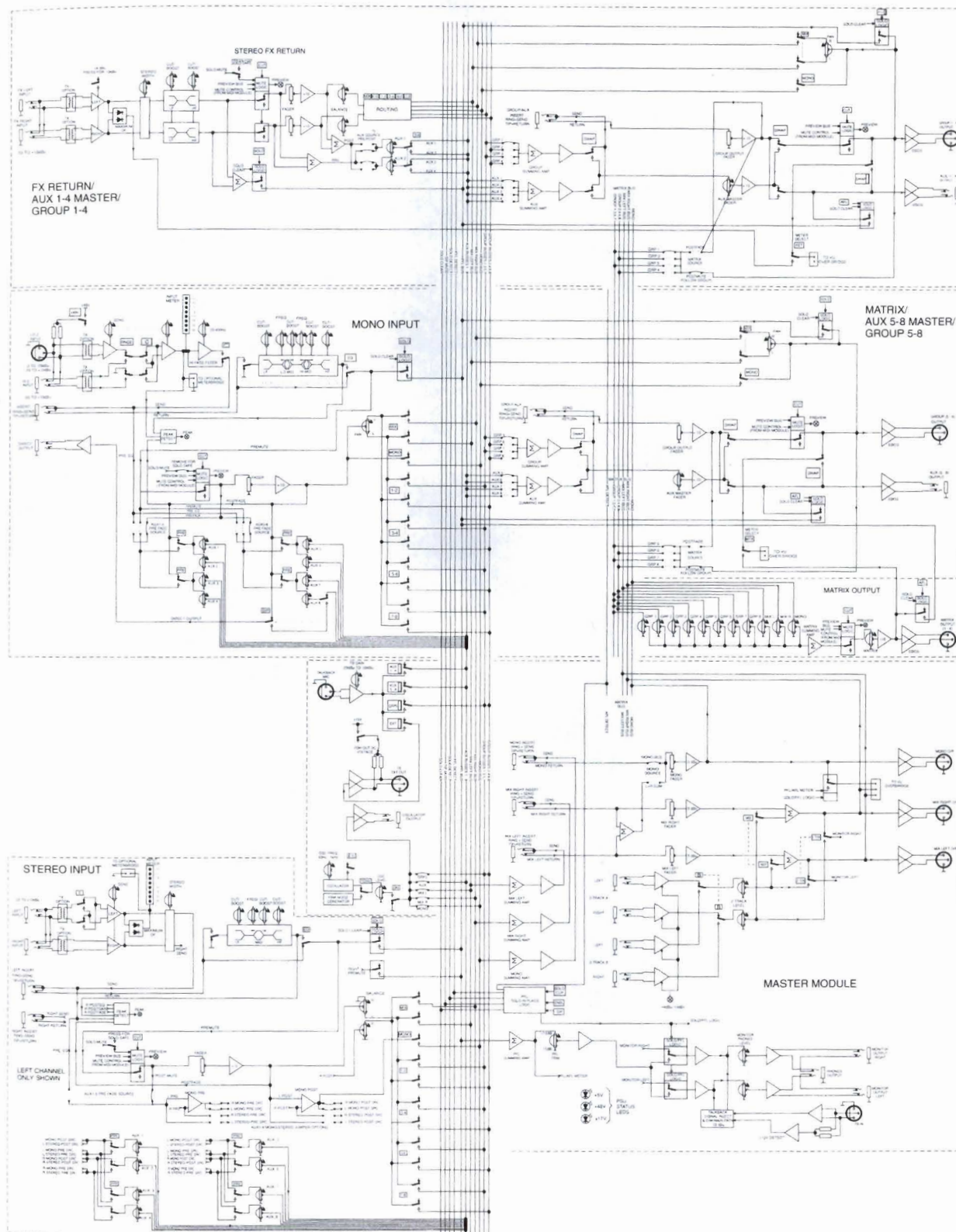


STEREO INF





# SYSTEM BLOCK DIAGRAM



irs  
is filter  
and solidity

..... +30dBu max.  
..... +21dBu max.  
..... +26dBu max.  
..... +21dBu max.  
..... 2kΩ  
..... > 10kΩ  
..... 50Ω  
..... < 75Ω

274.55mm (10.81")

.. 1247mm (49.09")  
.. 1503mm (59.17")  
.. 1735mm (68.30")  
.. 1967mm (77.44")

776.82mm (30.58")

..... 40 kg (88 lbs)  
..... 50 kg (110 lbs)  
..... 60 kg (132 lbs)  
..... 70 kg (154 lbs)



# Series TWO

SERIES  
**TWO**



- Highly flexible live performance console
- Classic 3-tier raked styling
- 24, 32 and 40 channel frame sizes
- Standard 8-bus, 8-aux structure

## TYPICAL SPECIFICATIONS

Frequency Response	XLR Input to any Output . . . . . +0/-0.5dB, 20Hz - 20kHz
T.H.D. (@ +4dBu)	XLR In to Mix Out . . . . . < 0.008% @ 1kHz
Noise	Mic Input E.I.N. (22Hz-22kHz, unweighted, 200Ω source) . . . . . < -127dBu Residual Noise (Mix Out, no inputs routed, Mix fader @ 0dB) . . . . . -88dBu Bus Noise (Mix Out, 40 ch. routed, input faders @ -∞, Mix fader @ 0dB) . . . . . -79dBu Bus Noise (Group Out, 40 ch. routed, input faders @ -∞, Mix fader @ 0dB) . . . . . -80dBu
Crosstalk (@ 1kHz)	Input Channel Muting . . . . . 90dB Input Fader Cut-off . . . . . 90dB
Oscillator	1kHz, routable to any combination of Aux 1-4, Mix+Mono, matrix 1 & matrix 2
Filter (Mono Input)	HP . . . . . 40Hz - 400Hz, 12dB/octave
EQ (Mono Input)	HF . . . . . 12kHz, +/-15dB Hi-Mid . . . . . 550Hz - 13kHz, +/-15dB, Q = 1.3 Lo-Mid . . . . . 80Hz - 1.9kHz, +/-15dB, Q = 1.3 LF . . . . . 60Hz, +/-15dB
Metering	12-segment bargraph meters for all input channels with peak hold facility 12-segment bargraph meters for the 8 group outputs, each side of the stereo mix bus and the mono bus (which switches to read PFL when required) Main L and R meters can be set to read monitor output
Power Consumption	175W
Operating Conditions	Temperature Range . . . . . -10°C to +30°C Humidity . . . . . 0% to 80%
Power Supply Unit	Type . . . . . DCP200

- 2 fully-featured stereo input channels included as standard
- 8 group outputs with stereo and mono master busses
- Built-in 11 x 2 output matrix
- 8 mute groups and MIDI muting
- 4-band EQ with two sweepable mids
- Sweepable high pass filtering on each mono channel
- LED bargraph input and output metering

## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input . . . . . +27dBu max. Balanced Inputs . . . . . +21dBu max. Balanced Outputs . . . . . +26dBu max. Impedance Balanced Outputs . . . . . +21dBu max.
Input & Output Impedances	Mic Input . . . . . 2kΩ All other Inputs . . . . . > 10kΩ Headphone Output . . . . . 50Ω All other Outputs . . . . . < 75Ω

## DIMENSIONS & WEIGHT

Height	All frame sizes . . . . . 255mm (10.03")
Width	24 channel . . . . . 1037mm (40.83") 32 channel . . . . . 1243mm (48.93") 40 channel . . . . . 1449mm (57.04")
Depth	All frame sizes . . . . . 716mm (28.18")
Weight	24 channel . . . . . 31 kg (68 lbs) 32 channel . . . . . 40 kg (88 lbs) 40 channel . . . . . 48 kg (106 lbs)

**SYSTEM BL**

MAX  
LEFT

REC OUT  
LEFT

MASTER  
FADER

INSERT

— AUX 1-8 BUSES  
— MIX LEFT BUS  
— MIX RIGHT BUS  
— MONO BUS  
— GROUP BUSES  
— PFL/MON. BUS

IN

70

+48V

0 -48V







## TYPICAL SPECIFICATIONS

<b>Frequency Response</b>	Any Input to any Output ..... +0/-0.5dB, 20Hz - 20kHz
<b>T.H.D. (@ +20dBu)</b>	Line In to Group or Mix Out ..... < 0.004% @ 1kHz ..... < 0.02% @ 10kHz
<b>Noise</b>	Mic Input E.I.N. (22Hz - 22kHz, unweighted) ..< -128.5dBu (150Ω source) Mix Noise (16 ch. routed) ..... < -84dBu
<b>Crosstalk (@ 1kHz)</b>	Mix to Group Output ..... > 90dB
<b>Filter</b>	HP ..... 100Hz, 12dB/octave
<b>EQ (Mono input)</b>	HF ..... 12kHz, +/-15dB Hi-Mid ..... 400Hz - 10kHz, +/-15dB, Q = 1.3 / 2.7 Lo-Mid ..... 60Hz - 1.5kHz, +/-15dB, Q = 1.3 / 2.7 LF ..... 60Hz, +/-15dB
<b>Metering</b>	Peak and signal LEDs on each input channel 4 12-segment peak-reading bargraph meters monitor group or matrix output
<b>Power Consumption</b>	99W (8 & 16 channel), 175W (24 & 32 channel)
<b>Operating Conditions</b>	Temperature Range ..... -10°C to +30°C Humidity ..... 0% to 80%
<b>Power Supply Unit</b>	Type ..... DCP125 (8 & 16 channel), DCP200 (24 & 32 channel)

- Professional compact 4-bus sound reinforcement console
- Designed for installed and portable sound system use
- 8, 16, 24 or 32 free-standing frame sizes
- 8 channel rackmount version
- Mono or stereo inputs
- Four subgroups and six auxiliaries
- 4-band mid-sweep EQ
- Stereo inputs as standard
- Built-in output matrix
- Mono modules can be replaced with stereos in 4-way blocks

## INPUT / OUTPUT SPECIFICATIONS

<b>Input &amp; Output Levels</b>	Mic Input	+30dBu max.
	Balanced Inputs	+21dBu max.
	Balanced Outputs	+26dBu max.
	Ground Comp Outputs	+21dBu max.
<b>Input &amp; Output Impedances</b>	Mic Input	1.5k $\Omega$
	All other Inputs	> 10k $\Omega$
	Headphone Output	50 $\Omega$
	All other Outputs	< 75 $\Omega$

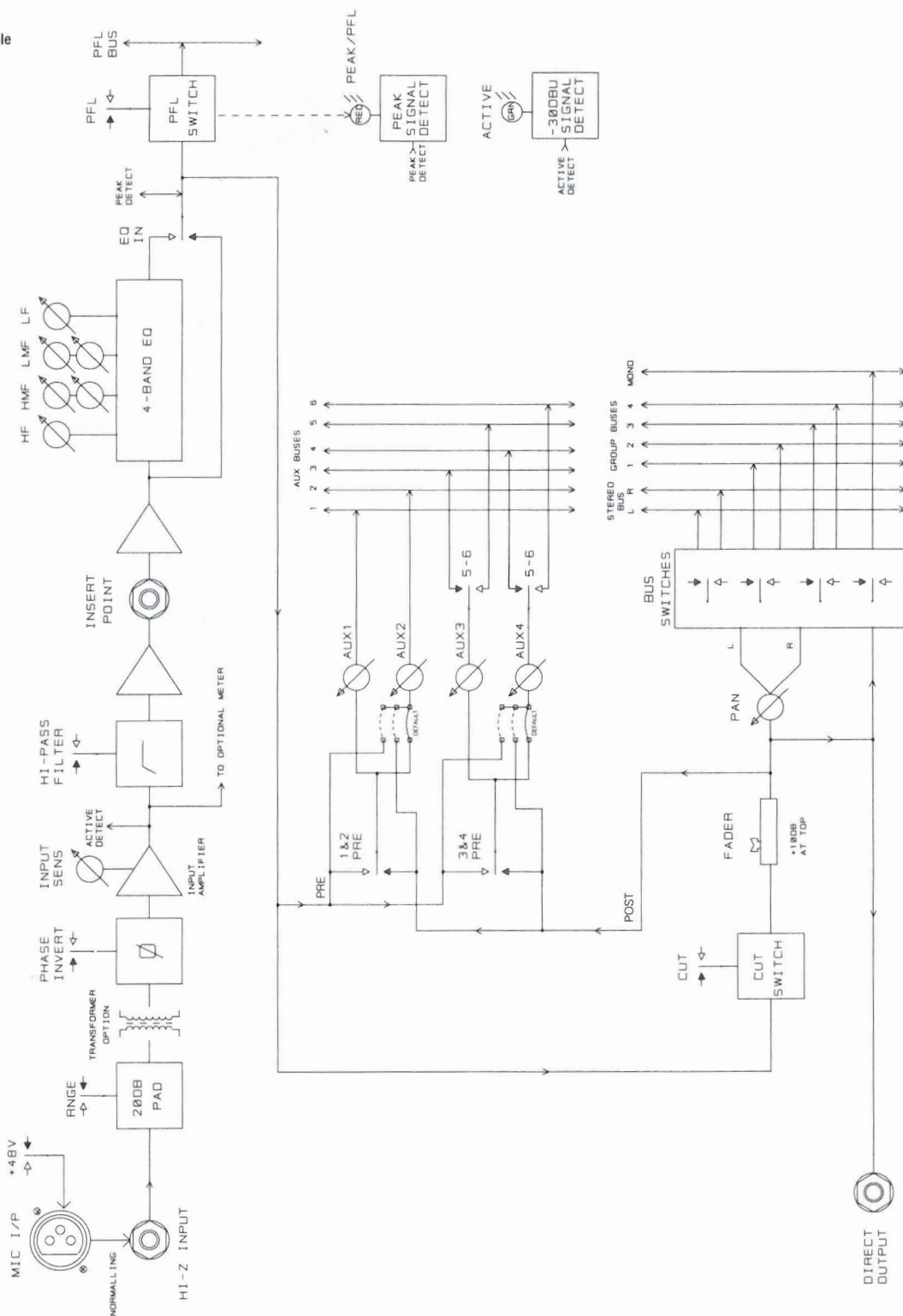
## DIMENSIONS & WEIGHT

<b>Height</b>	All frame sizes . . . . .	196.8mm (7.75")
<b>Width</b>	8 channel . . . . .	461.1mm (18.15")
	16 channel . . . . .	703.3mm (27.69")
	24 channel . . . . .	945.5mm (37.22")
	32 channel . . . . .	1187.7mm (46.76")
<b>Depth</b>	All frame sizes . . . . .	536.0mm (21.10")
<b>Weight</b>	8 channel . . . . .	13.4 kg (29.50 lbs)
	16 channel . . . . .	19.2 kg (42.20 lbs)
	24 channel . . . . .	25.0 kg (55.00 lbs)
	32 channel . . . . .	30.8 kg (67.76 lbs)



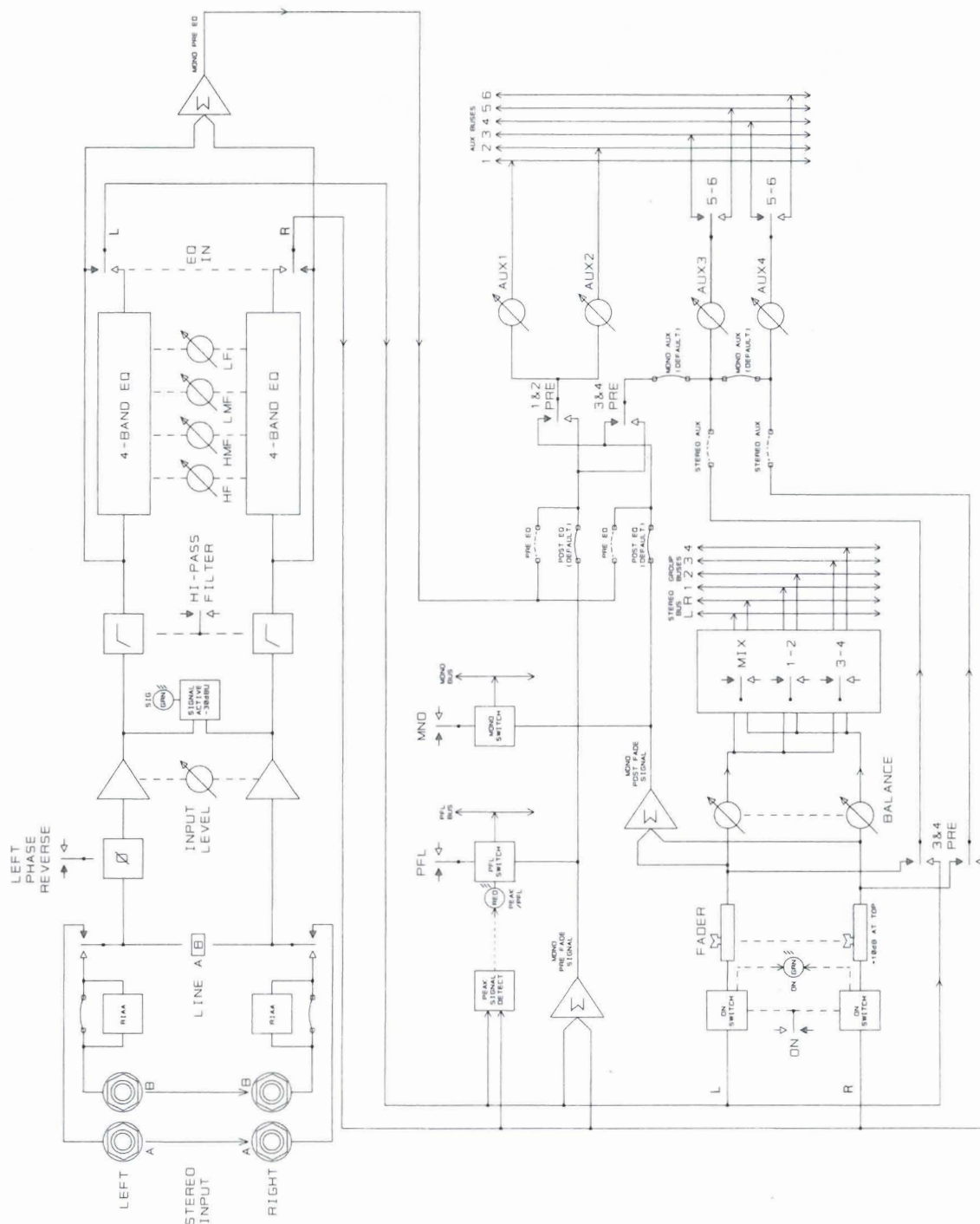
# SYSTEM BLOCK DIAGRAM

Mono Input Module



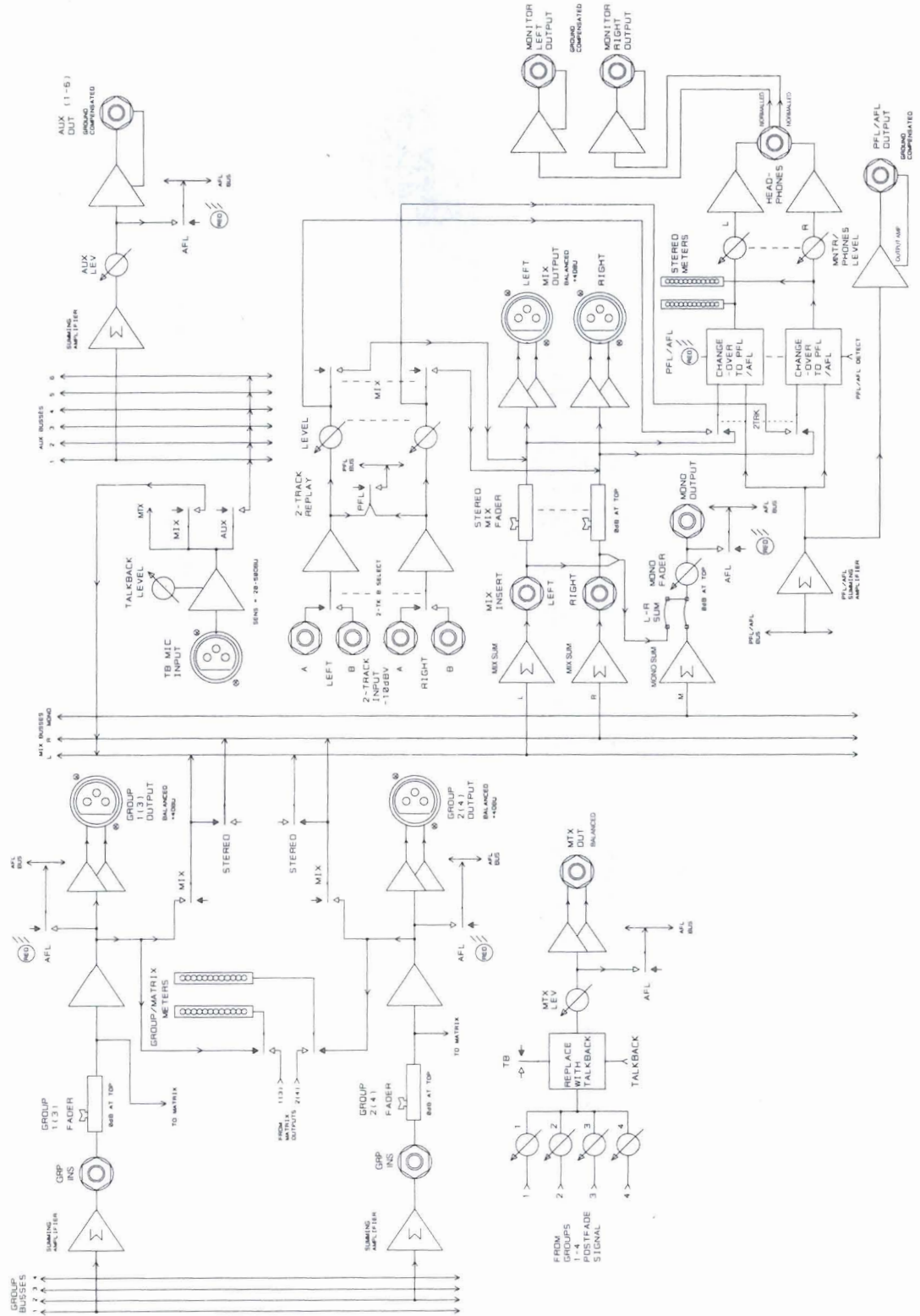
.....	+30dBu max.
.....	+21dBu max.
.....	+26dBu max.
.....	+21dBu max.
.....	1.5kΩ
.....	> 10kΩ
.....	50Ω
.....	< 75Ω

.....	196.8mm (7.75")
461.1mm (18.15")	
703.3mm (27.69")	
945.5mm (37.22")	
1187.7mm (46.76")	
536.0mm (21.10")	
13.4 kg (29.50 lbs)	
19.2 kg (42.20 lbs)	
25.0 kg (55.00 lbs)	
30.8 kg (67.76 lbs)	





Master Section



324 **D**

- ## SYSTEM B

## INPUT / OUTPUT SPECIFICATIONS

<b>Input &amp; Output Levels</b>	Mic Input . . . . .	+16dBu
	Balanced Inputs . . . . .	> +30dBu
	Mix & Matrix Outputs . . . . .	+22dBu
	All other Outputs . . . . .	+18dBu
<b>Input &amp; Output Impedances</b>	Mic Input . . . . .	2k $\Omega$
	All other Inputs . . . . .	45k $\Omega$
	Headphone Output . . . . .	40 $\Omega$
	All other Outputs . . . . .	75 $\Omega$

<b>Height</b>	160mm (6.3")
<b>Width</b>	715mm (28.2")
<b>Depth</b>	537mm (21.1")
<b>Weight</b>	14.4 kg (31.7 lbs)







- Fully-featured 8-bus mixing console, combining a range of professional control and routing facilities with compact design
- Four frame sizes available, from 16 to 40 channels
- Up to 56 inputs
- 8 group busses
- UltraMic+ preamp with up to 66dB gain range
- +48V phantom power, individually switchable on each channel
- 4-band EQ with two swept mid bands
- 4 mute groups
- Additional outputs on 10 x 2 matrix

## TYPICAL SPECIFICATIONS

Frequency Response	Line In to Mix Out via Group (longest path) . . . . . -1dB, 25Hz - 20kHz
T.H.D.	-10dBu Input routed to Mix +20dBu out . . . . . < 0.005% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain) . . . . . -129dBu (150Ω source) Mix (32 mono & 4 stereo inputs routed to Mix, faders @ unity) . . . -81dBu Mix (32 mono & 4 stereo inputs routed to Mix, faders down) . . . -95dBu Aux (32 mono & 4 stereo inputs routed, O/P @ max, faders down) -86dBu Direct Output (input to post-fade output @ unity gain) . . . . . -90dBu Direct Output (input to post-fade output @ 40dB gain) . . . . . -81dBu Matrix Output (output @ max, sends down) . . . . . -93dBu
Crosstalk (@ 1kHz)	Fader Attenuation to Direct Output . . . . . 92dB @ 1kHz, 80dB @ 10kHz Fader Attenuation to Mix (36 ch. routed) . . . 94dB @ 1kHz, 89dB @ 10kHz Fader Attenuation to Mix (1 ch. routed) . . . 101dB @ 1kHz, 89dB @ 10kHz Typical Aux Attenuation . . . . . 88dB @ 1kHz, 83dB @ 10kHz Pan Isolation (36 ch. to Mix) . . . . . 76dB @ 1kHz, 68dB @ 10kHz Adjacent Channel Crosstalk . . . . . 99dB @ 1kHz, 95dB @ 10kHz Routing Isolation . . . . . 86dB @ 1kHz, 86dB @ 10kHz Mute Offness . . . . . 104dB @ 1kHz, 88dB @ 10kHz Typical CMRR at medium gain (50Hz - 10kHz) . . . . . > 80dB Typical CMRR at high gain (50Hz - 10kHz) . . . . . > 85dB
Filter	HP . . . . . 100Hz, 18dB/octave
EQ	HF . . . . . 13kHz, +/-15dB Hi-Mid . . . . . 550Hz - 13kHz, +/-15dB Lo-Mid . . . . . 80Hz - 1.9kHz, +/-15dB LF . . . . . 80Hz, +/-15dB
Metering	Integral meterbridge with 12-segment LED bargraph
Power Consumption	99W (16 channel), 175W (24, 32 & 40 channel)
Operating Conditions	Temperature Range . . . . . -10°C to +30°C Humidity . . . . . 0% to 80%
Power Supply Unit	Type . . . . . DCP125 (16 channel), DCP200 (24, 32 & 40 channel)

## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic/Line Input . . . . . +28dBu max. Stereo Input . . . . . +25dBu max. Cassette / CD Input . . . . . +18dBu max. Stereo Return . . . . . +22dBu max. Outputs . . . . . +22dBu max., +4dBu nominal
Input & Output Impedances	Mic Input . . . . . 1.8kΩ All other Inputs . . . . . > 10kΩ Headphone Output . . . . . 75Ω All other Outputs . . . . . 75Ω

## DIMENSIONS & WEIGHT

Height	All frame sizes . . . . . 178mm (7")
Width	16 channel . . . . . 875mm (34.5") 24 channel . . . . . 1114mm (44.0") 32 channel . . . . . 1347mm (53.0") 40 channel . . . . . 1581mm (62.3")
Depth	All frame sizes . . . . . 685mm (26")
Weight	16 channel . . . . . 29.6 kg (65 lbs) 24 channel . . . . . 38.2 kg (84 lbs) 32 channel . . . . . 45.6 kg (100 lbs) 40 channel . . . . . 53.6 kg (118 lbs)

MASTER



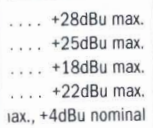
PRELAMP BUS  
GROUP BUS  
MIX RIGHT BUS  
MIX LEFT BUS  
AUX 1-6 BUSES





ie of  
t design

channel



..... 1.8k $\Omega$   
 ..... > 10k $\Omega$   
 ..... 75 $\Omega$   
 ..... 75 $\Omega$

..... 178mm (7")  


---

... 875mm (34.5")  
.. 1114mm (44.0")  
. 1347mm (53.0")  
. 1581mm (62.3")

.... 685mm (26")  
... 29.6 kg (65 lbs)  
... 38.2 kg (84 lbs)  
.. 45.6 kg (100 lbs)  
.. 53.6 kg (118 lbs)



- 12, 16, 24, 32 and 40 channel frame sizes
- GB30 mic preamp and precision equalisation circuitry
- 15 busses
- 2 full feature stereo channels
- 2 stereo returns
- Direct outputs on every channel
- Talkback facility
- 100mm faders
- Switchable 48V phantom powering on every channel
- 8 Aux sends (4 of which are pre/post switchable)
- 18dB/octave high pass filter
- 4 sub groups
- 4 mute groups
- 7x4 output matrix
- 12-segment LED metering
- Record output with limiter

## TYPICAL SPECIFICATIONS

Frequency Response	Mic/Line Input to any output . . . . . 20Hz - 20kHz, < 1dB
T.H.D.	Mic sens. -30dBu, +20dBu at all outputs . . . . . < 0.006% @ 1kHz
Noise	Measured RMS, 22Hz to 22kHz Bandwidth Mic Input E.I.N. @ unity gain . . . . . < -128dBu (150Ω source) Mix Output, 40 inputs routed to mix . . . . . < -82dBu Group Outputs . . . . . < -83dBu Aux Outputs . . . . . < -80dBu Matrix Outputs . . . . . < -89dBu
Crosstalk (@ 1kHz)	Input channel muting . . . . . < -97dB Input fader cutoff . . . . . < -95dB Input pan pot isolation . . . . . < -77dB Mix routing isolation . . . . . < -97dB Group routing isolation . . . . . < -97dB Adjacent channel isolation . . . . . < -99dB Group-Mix crosstalk . . . . . < -89dB Aux send off . . . . . < -84dB Matrix send off . . . . . < -89dB Typical CMRR at max gain @ 1kHz . . . . . 80dB
Filter	HP (mono input) . . . . . 100Hz, 18dB/octave
EQ	HF . . . . . 13kHz, +/-15dB, 2nd order shelving Hi-Mid . . . . . 550Hz - 13kHz, +/-15dB, Q=1.5 Lo-Mid . . . . . 80Hz - 1.9kHz, +/-15dB, Q=1.5 LF . . . . . 80Hz, +/-15dB, 2nd order shelving
Metering	Input channels . . . . . Single tri-colour 4-segment LED bargraph Output channels . . . . . 7 tri-colour 12-segment LED bargraphs
Power	AC mains supply (internal PSU) 85V-270V AC, 50/60Hz universal input Power consumption . . . . . Less than 150W
Operating Conditions	Temperature Range . . . . . -10°C to +30°C Humidity . . . . . 0% to 80%

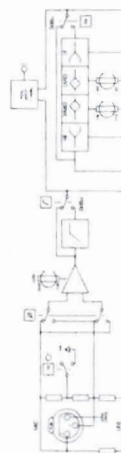
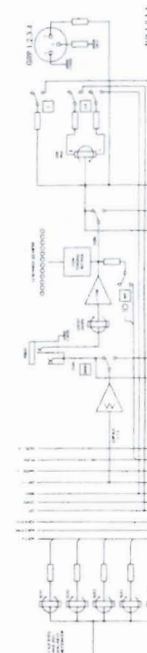
## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mono & Stereo Mic Inputs . . . . . +15dBu max. Mono & Stereo Line Inputs . . . . . +30dBu max. Stereo Inputs & Insert Returns . . . . . +20dBu max. All Outputs . . . . . +20dBu max. Nominal operating level . . . . . 0dBu max. Headphone power . . . . . 2 x 250mW into 200Ω phones
Input & Output Impedances	Mic Input . . . . . 2kΩ Line Inputs and Stereo Returns . . . . . 10kΩ Input Channel Insert Return . . . . . 5kΩ (with EQ in, otherwise worst case 3kΩ) Mix, Group, Aux, Matrix & Direct outputs . . . . . 150Ω Insert Sends . . . . . 75Ω Recommended headphone impedance . . . . . 50-600Ω

## DIMENSIONS & WEIGHT

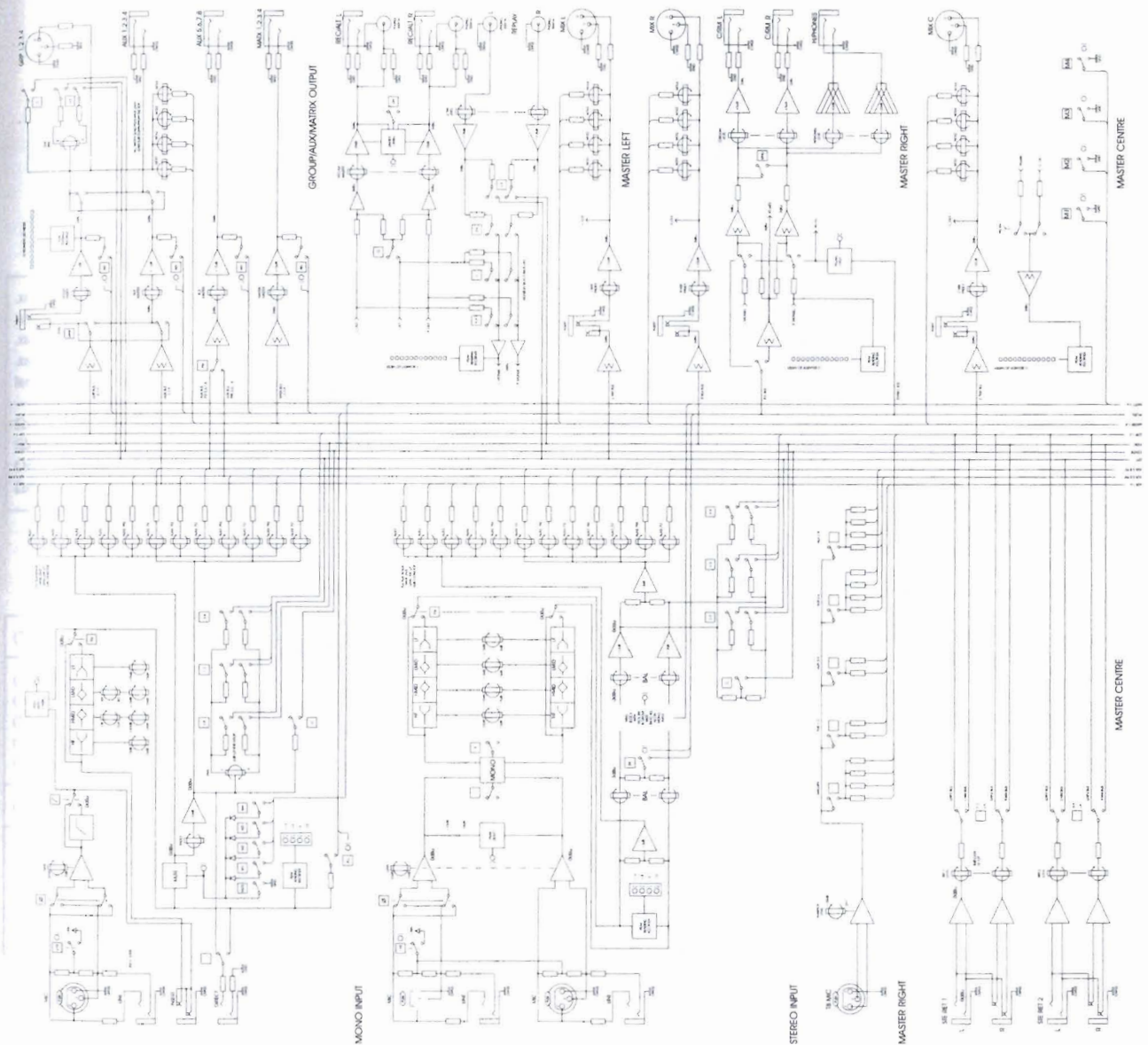
Height	All frame sizes . . . . . 159mm (6.26")
Width	12 channel . . . . . 730mm (28.73") 16 channel . . . . . 842mm (33.13") 24 channel . . . . . 1065mm (41.93") 32 channel . . . . . 1300mm (51.17") 40 channel . . . . . 1523mm (59.96")
Depth	All frame sizes . . . . . 656mm (25.83")
Weight	12 channel . . . . . 20 kg (44.1 lbs) 16 channel . . . . . 22 kg (48.5 lbs) 24 channel . . . . . 27 kg (59.5 lbs) 32 channel . . . . . 32 kg (70.5 lbs) 40 channel . . . . . 37 kg (81.6 lbs)

## SYSTEM BLOCK





## SYSTEM BLOCK DIAGRAM



- ..... +15dBu max.
- ..... +30dBu max.
- ..... +20dBu max.
- ..... +20dBu max.
- ..... 0dBu max.
- ..... 1mW into 200Ω phones
- ..... 2kΩ
- ..... 10kΩ
- ..... (with EQ in, otherwise worst case 3kΩ)
- ..... 150Ω
- ..... 75Ω
- ..... 50-600Ω

- ..... 159mm (6.26")
- ..... 730mm (28.73")
- ..... 842mm (33.13")
- ..... 1065mm (41.93")
- ..... 1300mm (51.17")
- ..... 1523mm (59.96")
- ..... 656mm (25.83")
- ..... 20 kg (44.1 lbs)
- ..... 22 kg (48.5 lbs)
- ..... 27 kg (59.5 lbs)
- ..... 32 kg (70.5 lbs)
- ..... 37 kg (81.6 lbs)

# Spirit Live 4<sup>2</sup>

SPIRIT



- 4-bus professional mixing console
- Available in 12, 16, 24, 32 and 40 channel frame sizes
- Up to 56 inputs – 40 mono, 8 stereo
- 4-bus architecture
- UltraMic+ preamp with up to 66dB gain range
- 48V phantom power, individually switchable on each channel
- 4-band EQ with two swept mid bands
- Full-size 100mm faders

## TYPICAL SPECIFICATIONS

Frequency Response	20Hz – 20kHz ..... -1dB
T.H.D.	-10dBu Input routed to Mix +20dBu out ..... < 0.006% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain) ..... -129dBu (150Ω source) Mix (26 inputs routed to Mix, faders @ unity, muted) ..... -82dBu Mix (26 inputs routed to Mix, mix faders down) ..... -97dBu Aux (26 inputs routed, O/P @ max, faders down) ..... -84dBu Input to Direct Output @ unity gain ..... -87dBu Input to Direct Output @ 40dB gain ..... -77dBu Matrix Output @ max, sends down ..... -95dBu
Crosstalk (Wideband)	Typical Channel Fader Attenuation ..... > 80dB Typical Aux Attenuation ..... > 80dB Typical Pan Isolation ..... > 70dB Adjacent Channel Crosstalk ..... > 85dB, 100dB @ 1kHz Typical CMRR at max gain @ 1kHz ..... -85dB Typical CMRR at any gain @ 50Hz ..... -65dB
Filter	HP ..... 100Hz, 18dB/octave
EQ	HF ..... 12kHz, +/-15dB Hi-Mid ..... 550Hz – 13kHz, +/-15dB Lo-Mid ..... 80Hz – 1.9kHz, +/-15dB LF ..... 80Hz, +/-15dB
Metering	Two peak-reading, 12-segment bargraphs display mix levels Switchable to read solo levels if any solo is activated
Power Consumption	99W (12, 16 & 24 channel), 100W (32 channel), 400W (40 channel)
Operating Conditions	Temperature Range ..... -10°C to +30°C Humidity ..... 0% to 80%
Power Supply Unit	Type .. DCP125 (12, 16 & 24 ch.), CPS150 (32 ch.) & CPS450 (40 ch.)

## INPUT / OUTPUT SPECIFICATIONS

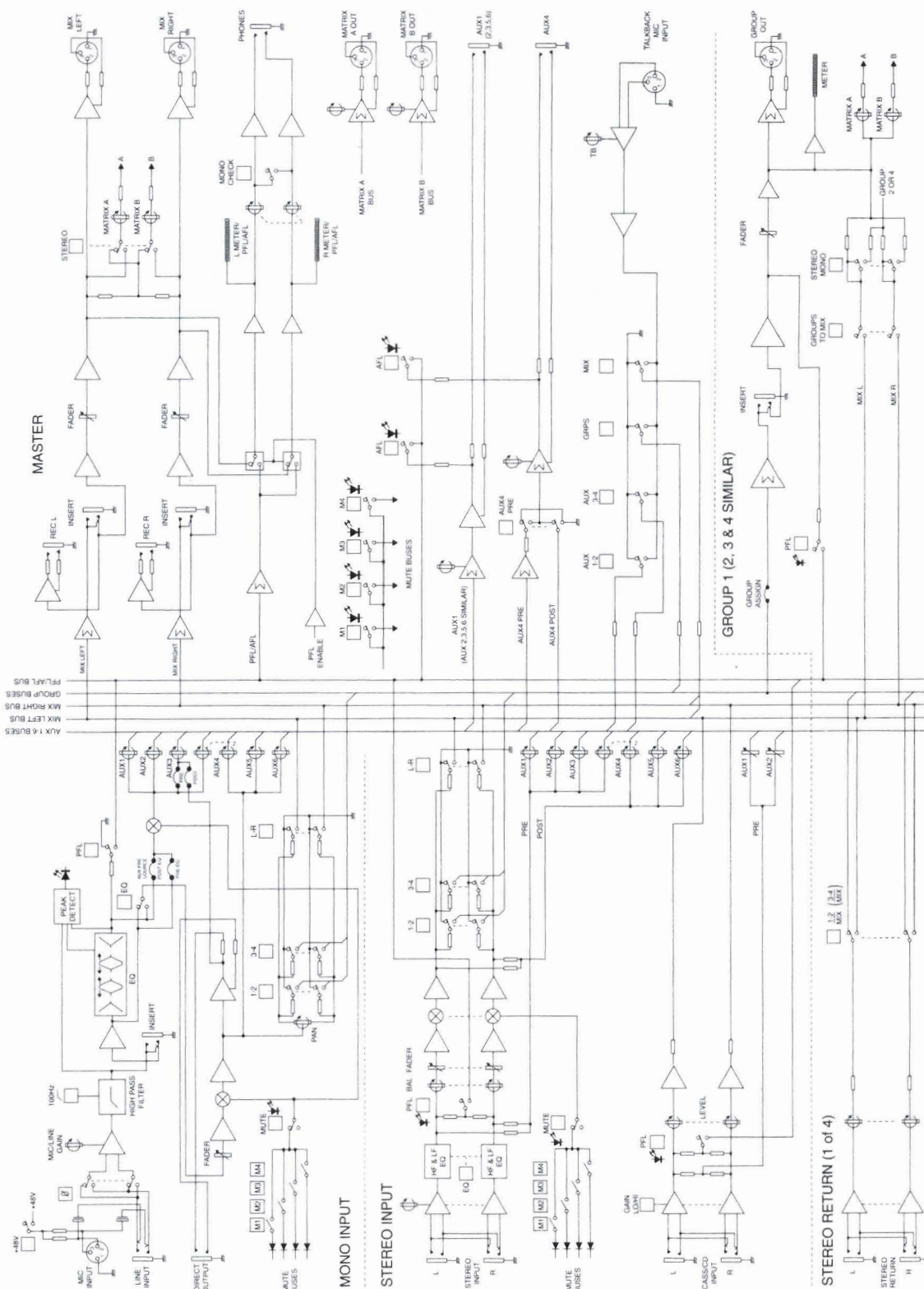
Input & Output Levels	Mic/Line Input ..... +28dBu max. Stereo Input ..... +25dBu max. Cassette/CD Input ..... +18dBu max. Stereo Return ..... +22dBu max. Outputs ..... +22dBu max., +4dBu nominal
Input & Output Impedances	Mic Input ..... 1.8kΩ All other Inputs ..... > 10kΩ Headphone Output ..... 75Ω All other Outputs ..... 75Ω

## DIMENSIONS & WEIGHT

Height	All frame sizes ..... 87.5mm (3.44")
Width	12 channel ..... 685mm (27.0") 16 channel ..... 845mm (33.3") 24 channel ..... 1101mm (43.3") 32 channel ..... 1362mm (53.6") 40 channel ..... 1616mm (63.6")
Depth	All frame sizes ..... 590.5mm (23.44")
Weight	12 channel ..... 17.4 kg (38.3 lbs) 16 channel ..... 21.4 kg (47.1 lbs) 24 channel ..... 28.0 kg (61.6 lbs) 32 channel ..... 34.8 kg (76.6 lbs) 40 channel ..... 41.8 kg (92.0 lbs)



## SYSTEM BLOCK DIAGRAM ch channel





- 7-bus professional mixing console
- 16, 24 and 32 channel frame sizes
- GB30 mic preamp and precision equalisation circuitry
- 48V phantom power
- True 7-bus architecture
- Channel direct outputs
- Talkback facility
- Full-size 100mm faders
- Integral universal voltage, switched-mode PSU for light weight

### TYPICAL SPECIFICATIONS

Frequency Response	XLR input to any Output ..... 20Hz - 20kHz, +0/-1dB
T.H.D.	All measurements at +10dBu output, 30dB gain XLR input to Direct output ..... < 0.007% @ 1kHz XLR input to Mix output ..... < 0.008% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain) ..... < -128dBu (150Ω source) Mix (32 ch. routed to mix, faders down, 22Hz - 22kHz) ..... < -85dBu Group (32 ch. routed to mix, faders down, 22Hz - 22kHz) ..... < -85dBu Aux (32 ch. routed to mix, faders down, 22Hz - 22kHz) ..... < -88dBu
Crosstalk (@ 1kHz)	Input channel muting ..... > 98dB Input fader cutoff ..... > 98dB Input pan pot isolation ..... > 82dB Mix routing isolation ..... > 98dB Group routing isolation ..... > 98dB Adjacent channel isolation ..... > 100dB Group-Mix crosstalk ..... < -84dB Aux send off ..... < -94dB Typical CMRR at max gain @ 1kHz ..... 80dB
Filter	HP (mono input) ..... 100Hz, 18dB/octave
EQ	HF ..... 13kHz, +/-15dB, 2nd order shelving Hi-Mid ..... 550Hz - 13kHz, +/-15dB, Q=1.5 Lo-Mid ..... 80Hz - 1.9kHz, +/-15dB, Q=1.5 LF ..... 80Hz, +/-15dB, 2nd order shelving
Metering	6 tri-colour 12-segment LED bargraphs
Power	AC mains supply (internal PSU) 85V-270V AC, 50/60Hz universal input Power consumption ..... Less than 50W
Operating Conditions	Temperature Range ..... -10°C to +30°C Humidity ..... 0% to 80%

### INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input ..... +15dBu max. Line Input ..... +30dBu max. Stereo Inputs & Insert Returns ..... +20dBu max. All Outputs ..... +20dBu max. Nominal operating level ..... 0dBu max. Headphone power ..... 2 x 250mW into 200Ω phones
Input & Output Impedances	Mic Input ..... 2kΩ Line Inputs ..... > 10kΩ Input Channel Insert Return ..... 5kΩ (with EQ in, otherwise worst case 1.8kΩ) Mix, Group, Aux Outputs ..... 150Ω Insert Sends ..... 75Ω Recommended headphone impedance ..... 50-600Ω

### DIMENSIONS & WEIGHT

Height	All frame sizes <sup>1</sup> ..... 164mm (6.5")
Width	16 channel ..... 653mm (25.7") 24 channel ..... 856mm (33.7") 32 channel ..... 1059mm (41.7")
Depth	All frame sizes ..... 503mm (19.8")
Weight (packed)	16 channel ..... 18.2 kg (40.0 lbs) 24 channel ..... 21.8 kg (48.0 lbs) 32 channel ..... 25.4 kg (56.0 lbs)

MASTER

PFL/AFL BUS  
GROUP BUSES  
C (MONO) BUS  
MIX RIGHT BUS  
MIX LEFT BUS  
AUX BUSES

PEAK

100Hz

MIC/LINE

FLUO

+48V

0



## SYSTEM BLOCK DIAGRAM

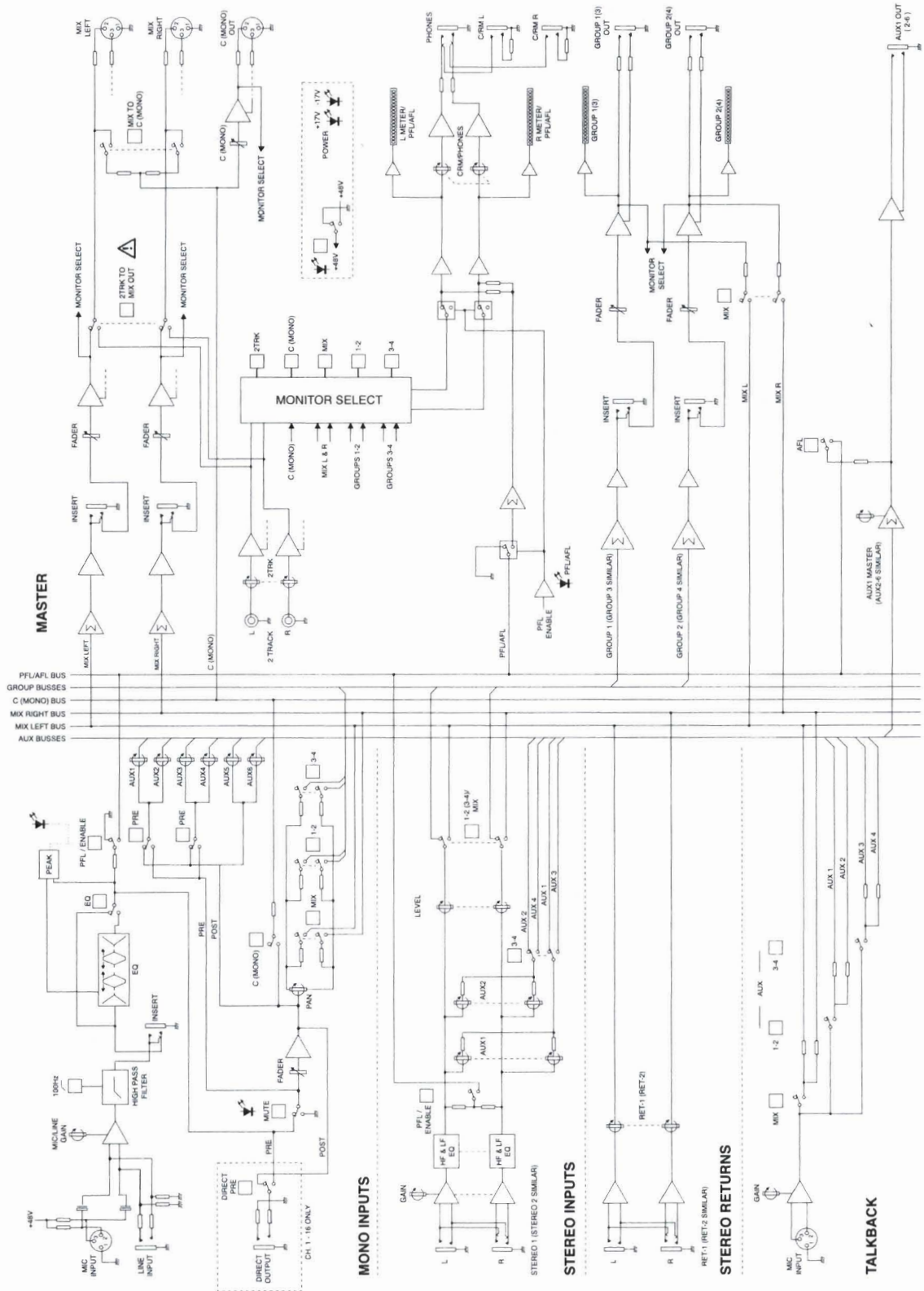
country

light weight

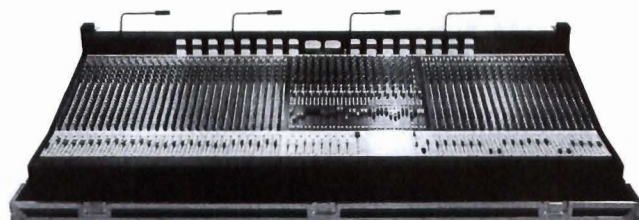
..... +15dBu max.  
..... +30dBu max.  
..... +20dBu max.  
..... +20dBu max.  
..... 0dBu max.  
..... 0mW into 200Ω phones

..... 2kΩ  
..... > 10kΩ  
Ω (with EQ in, otherwise  
..... worst case 1.8kΩ  
..... 150Ω  
..... 75Ω  
..... 50-600Ω

..... 164mm (6.5")  
..... 653mm (25.7")  
..... 856mm (33.7")  
..... 1059mm (41.7")  
..... 503mm (19.8")  
..... 18.2 kg (40.0 lbs)  
..... 21.8 kg (48.0 lbs)  
..... 25.4 kg (56.0 lbs)



# FIVE Monitor



- Dedicated monitor mixing console
- 40 - 60 channel frame sizes
- Choice of 24 or 32-bus output structures
- MIDI messaging to BSS FPC-900 Varicurve™ Remote for instant control of outboard EQ

- Optional stereo mic/line inputs with full EQ
- Built-in 23 x 12 or 23 x 16 output matrix
- 8 VCA groups and 8 mute groups
- 4-band fully parametric EQ on both mono and stereo inputs
- Sweepable filters on all input channels
- A and B XLR inputs for every channel
- Input metering on every channel
- Optional parametric EQ output module
- Two separate solo systems suitable for feeding a number of different systems - such as wedges and in-ear
- Sends can be globally configured as mono or stereo
- Compact, lightweight frame designed to withstand touring
- Rugged power supply with three year warranty

## TYPICAL SPECIFICATIONS

Frequency Response	Any Input to any Output . . . . . +0/-0.5dB, 20Hz - 20kHz
T.H.D. (@ +20dBu)	Line In to Direct Out (VCA Out) . . . . . < 0.006% @ 1kHz Line In to Direct Out (VCA In) . . . . . < 0.02% @ 1kHz Line In to Mix Out (VCA Out) . . . . . < 0.008% @ 1kHz
Noise	Mic Input E.I.N. (22Hz - 22kHz, unweighted) . . . . . < -127dBu (150Ω source) Group Output Residual Noise . . . . . < -92dBu Mix Output Noise (32 ch. routed) . . . . . < -80dBu Grp Output Noise (32 ch. routed) . . . . . < -80dBu
Crosstalk (@ 1kHz)	Input Channel Muting . . . . . > 90dB Input Channel Fader Isolation . . . . . > 90dB Input Send Pot Routing Isolation . . . . . > 90dB Group to Group Crosstalk . . . . . < -90dB Group to Mix Crosstalk . . . . . < -90dB Mono Input CMRR, A or B inputs . . . . . -60dB @ 1kHz
Oscillator	63Hz to 10kHz / pink noise, variable level
Filters (Mono Input)	HP . . . . . 20 - 600Hz, 12dB/octave LP . . . . . 1kHz - 20kHz, 12dB/octave
EQ (Mono Input)	HF . . . . . 1kHz - 20kHz, +/-15dB, Q = 0.5 - 3.0 or shelf Hi-Mid . . . . . 500Hz - 8kHz, +/-15dB, Q = 0.5 - 3.0 Lo-Mid . . . . . 70Hz - 1.5kHz, +/-15dB, Q = 0.5 - 3.0 LF . . . . . 30Hz - 480Hz, +/-15dB, Q = 0.5 - 3.0 or shelf
Metering	Overbridge . . . . . 16 VU Meters monitoring Output or Matrix & 2 VU Meters monitoring Left and Right wedge mixes + Peak LEDs Mono Input . . . . . 9-LED bargraph + Peak LED Stereo Input . . . . . 2 x 4-LED bargraph + Peak LED
Power Consumption	980W (40 - 52 channel), 1960W (52 & 60 channel)
Operating Conditions	Temperature Range . . . . . -10°C to +30°C Humidity . . . . . 0% to 80%
Power Supply Unit	Type . . . . . CPS2000 (2 required on 56 channel)

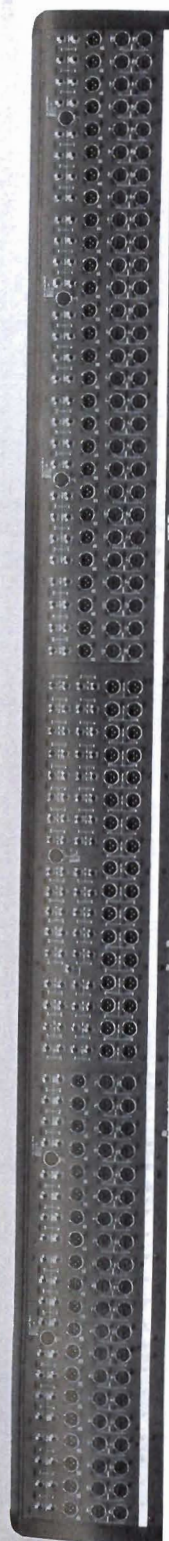
## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input . . . . . +30dBu max. Balanced Inputs . . . . . +21dBu max. Balanced Outputs . . . . . +26dBu max.
Input & Output Impedances	Mic Input . . . . . 2kΩ All other Inputs . . . . . > 10kΩ Headphone Output . . . . . 50Ω All other Outputs . . . . . < 75Ω

## DIMENSIONS & WEIGHT

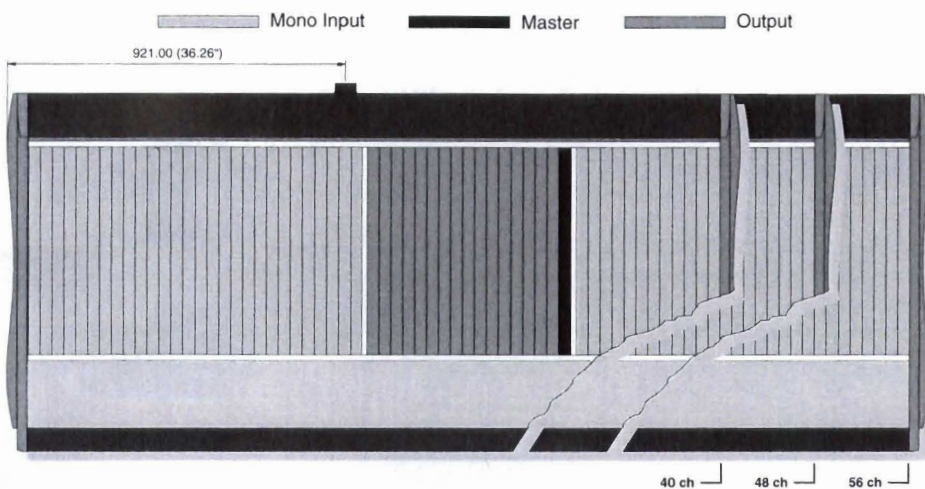
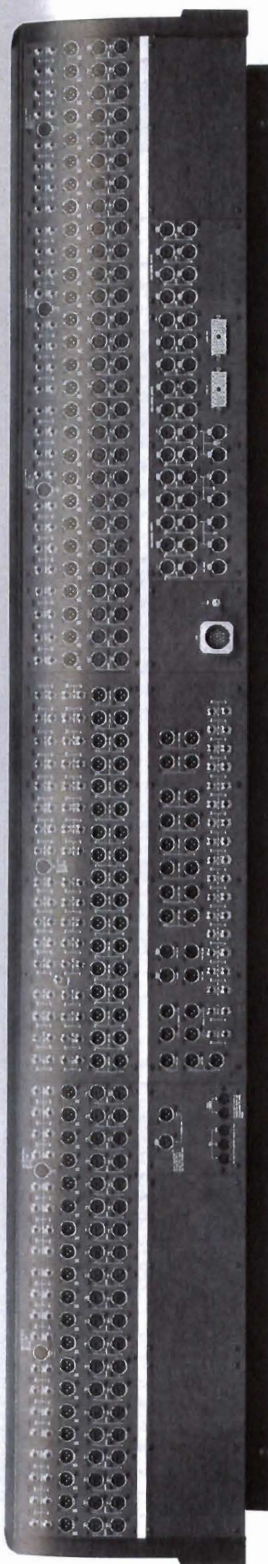
Height	All frame sizes . . . . . 388.70mm (15.30")
Width	24-bus 44 channel / 32-bus 40 channel . . . . . 2007.80mm (79.05") 24-bus 52 channel / 32-bus 48 channel . . . . . 2269.80mm (89.36") 24-bus 60 channel / 32-bus 56 channel . . . . . 2531.80mm (99.67")
Depth	All frame sizes . . . . . 914.00mm (35.98")
Weight	24-bus 44 channel / 32-bus 40 channel . . . . . 156 kg (343 lbs) 24-bus 52 channel / 32-bus 48 channel . . . . . 170 kg (374 lbs) 24-bus 60 channel / 32-bus 56 channel . . . . . 185 kg (407 lbs)

## REAR PANEL

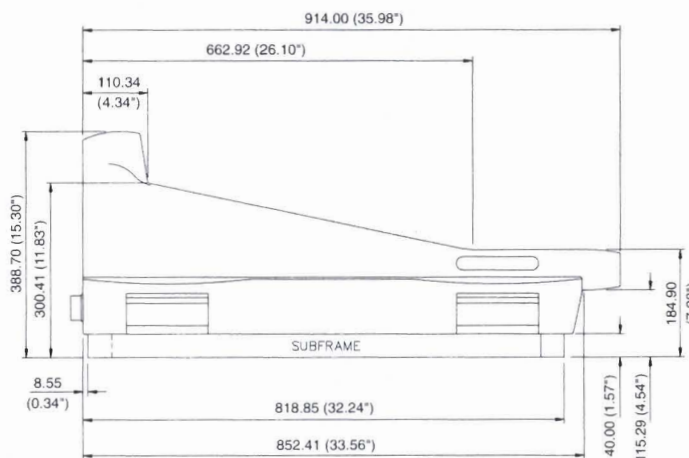
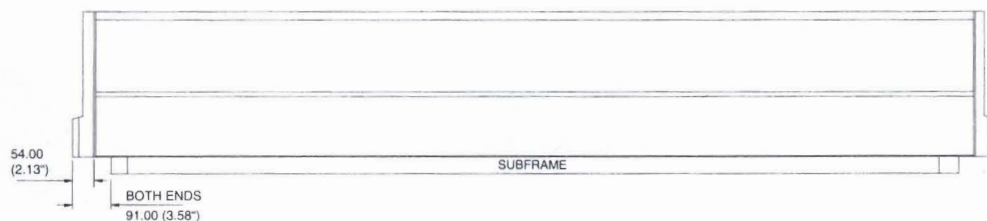




## REAR PANEL CONNECTIONS & DIMENSIONS



32-bus console shown. 24-bus version has 4 output modules replaced by 4 inputs.



reio inputs

umber of different

30

touring

..... +30dBu max.  
..... +21dBu max.  
..... +26dBu max.

..... 2k $\Omega$   
..... > 10k $\Omega$   
..... 50 $\Omega$   
..... < 75 $\Omega$

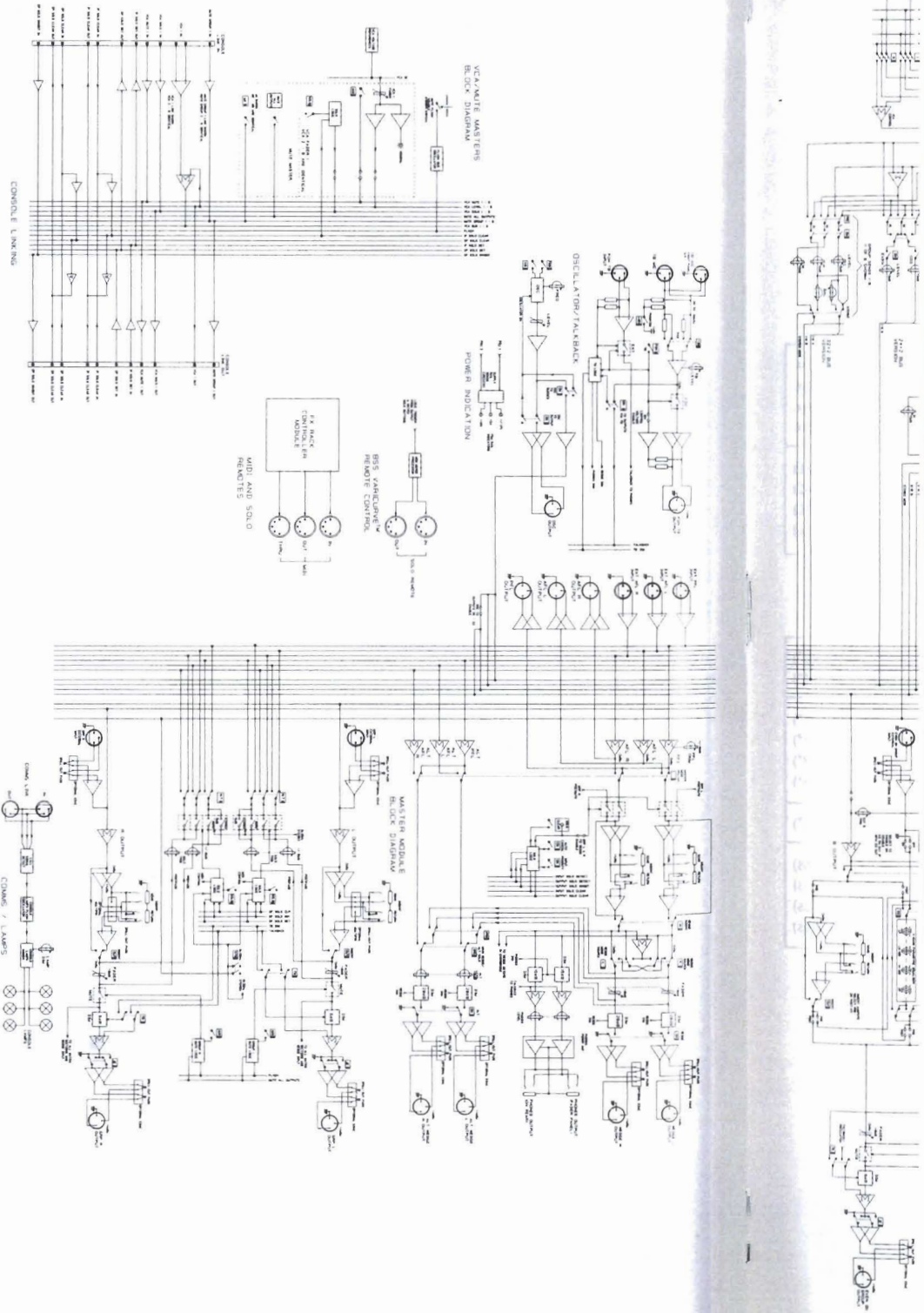
. 388.70mm (15.30")

2007.80mm (79.05")  
2269.80mm (89.36")  
2531.80mm (99.67")

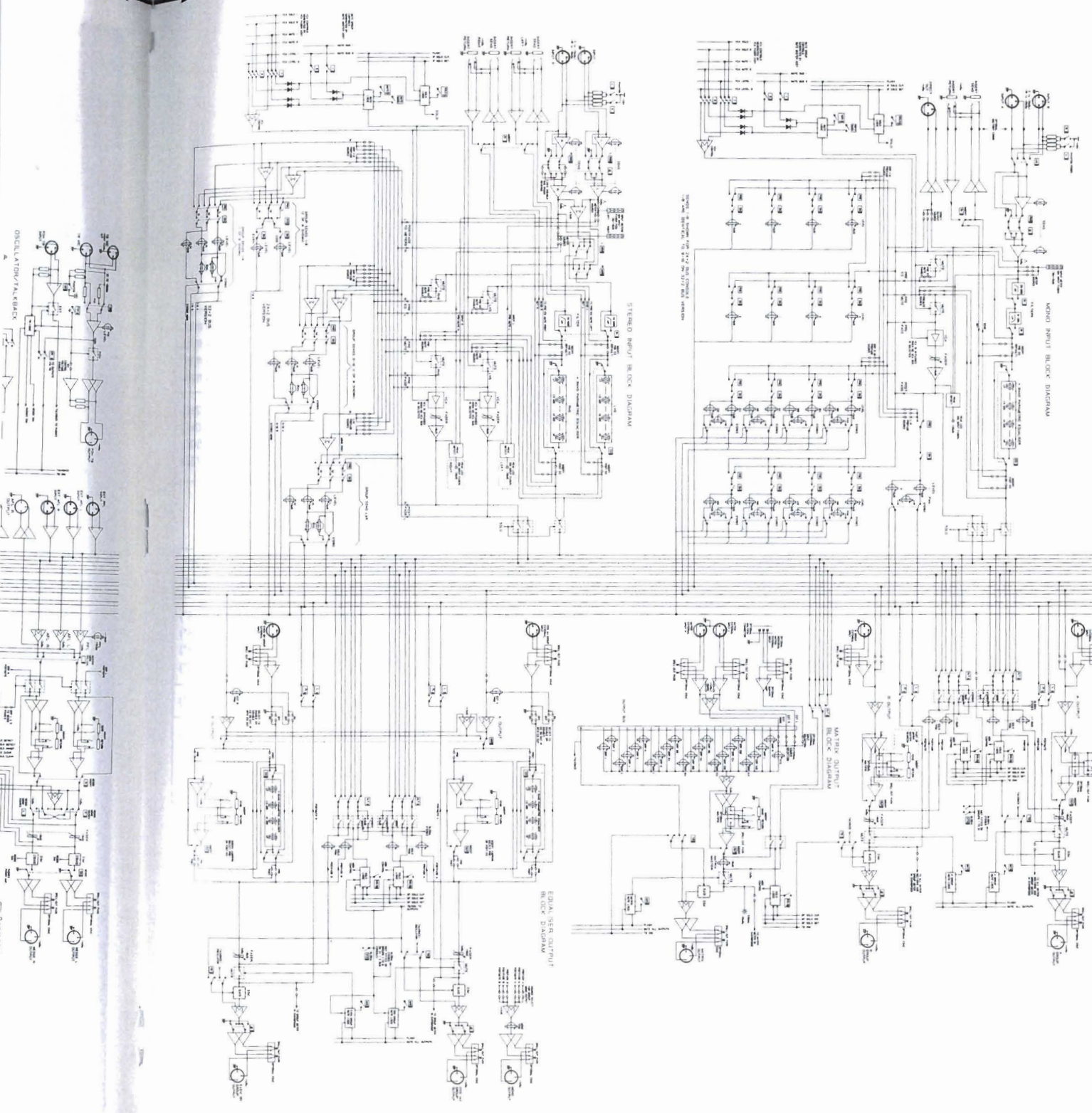
. 914.00mm (35.98")

.... 156 kg (343 lbs)  
.... 170 kg (374 lbs)  
.... 185 kg (407 lbs)

# SYSTEM BLOCK DIAGRAM









- Compact mid-range stage monitor console with 20 mix outputs, ideal for in-ear monitoring applications
- Frame sizes from 32-56 mono inputs
- 8 mute groups

### TYPICAL SPECIFICATIONS

Frequency Response	XLR Input to any Output: ..... +0/-0.5dB, 20Hz - 20kHz
T.H.D. (@ +20dBu)	Line In to Group or Mix Out ..... < 0.005% @ 1kHz ..... < 0.025% @ 10kHz
Noise	Mic Input E. I. N. (22Hz - 22kHz, unweighted) < -127.5dBu (200Ω source) Group Output Noise ..... < -80dBu (40ch routed) Mix Output Noise ..... < -80dBu (40ch routed)
Crosstalk (@ 1kHz)	Input Channel Muting: ..... > 100dB Input Channel Send Pot Isolation ..... > 100dB Group Fader Isolation ..... > 95dB Group to Group Crosstalk ..... < -90dB Group to LR Crosstalk ..... < -90dB
Oscillator	63Hz to 10kHz / pink noise, variable level
Filter	HP ..... 20Hz - 400Hz
EQ	HF ..... 1kHz - 20kHz, +/-15dB, bell or shelf Hi-Mid ..... 450Hz - 12kHz, +/-15dB, Q = 0.5 - 3.0 Lo-Mid ..... 70Hz - 1.5kHz, +/-15dB, Q = 0.5 - 3.0 LF ..... 30Hz - 480Hz, +/-15dB, bell or shelf
Metering	Optional VU Meterbridge with 20 VU meters for the main outputs & 2 VU meters for the main wedge outputs Each meter has a peak LED set to 3dB below clipping level Input Module ..... 10-LED bargraph incl. peak LED Output Module ..... 16-LED bargraph
Power Consumption	650W
Operating Conditions	Temperature Range ..... -10°C to +30°C Humidity ..... 0% to 80%
Power Supply Unit	Type ..... CPS800

- Remote control of BSS Varicurve™ via MIDI messaging
- 4-band EQ with 2 parametric mid bands plus sweepable high-pass filter
- Up to 7 stereo and 6 mono sends, or 20 mono sends
- Sends can be individually configured as mono or stereo
- LED input and output metering
- Optional VU output meterbridge

### INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input ..... +30dBu max. Balanced Inputs ..... +21dBu max. Balanced Outputs ..... +26dBu max. Ground Comp Outputs ..... +21dBu max.
Input & Output Impedances	Mic Input ..... 2kΩ All other Inputs ..... > 10kΩ Headphone Output ..... 50Ω All other Outputs ..... < 75Ω

### DIMENSIONS & WEIGHT

Height	All frame sizes, with VU meterbridge ..... 398.40mm (15.70") All frame sizes, without VU meterbridge ..... 277.88mm (10.94")
Width	32 channel ..... 1366mm (53.78") 40 channel ..... 1620mm (63.78") 48 channel ..... 1874mm (73.78") 56 channel ..... 2128mm (83.78")
Depth	All frame sizes ..... 795.80mm (31.33")
Weight (incl. meterbridge)	32 channel ..... 68 kg (149.6 lbs) 40 channel ..... 91 kg (200.2 lbs) 48 channel ..... 106 kg (233.2 lbs) 56 channel ..... 121 kg (266.2 lbs)



# SYSTEM BLOCK DIAGRAM

aging  
eapable

ends  
stereo

..... +30dBu max.  
..... +21dBu max.  
..... +26dBu max.  
..... +21dBu max.

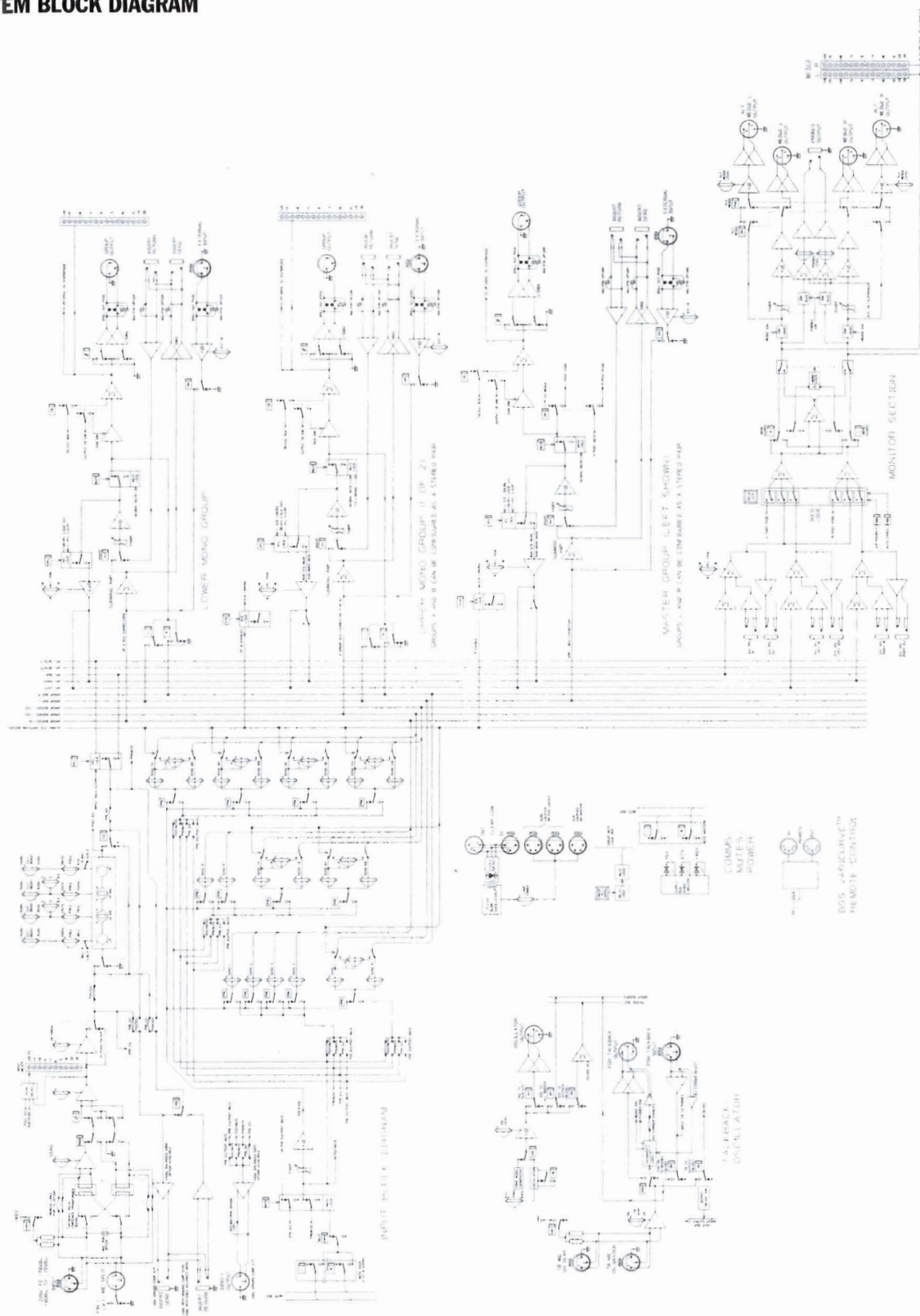
..... 2k $\Omega$   
..... > 10k $\Omega$   
..... 50 $\Omega$   
..... < 75 $\Omega$

.. 398.40mm (15.70")  
.. 277.88mm (10.94")

... 1366mm (53.78")  
... 1620mm (63.78")  
... 1874mm (73.78")  
... 2128mm (83.78")

.. 795.80mm (31.33")

... 68 kg (149.6 lbs)  
... 91 kg (200.2 lbs)  
... 106 kg (233.2 lbs)  
... 121 kg (266.2 lbs)



# Spirit Monitor 2

SPIRIT

SYSTEM BLOCK



- 12-bus stage monitor / front of house mixing console
- 24, 32 and 40 channel frame sizes
- 4-band EQ with two swept mid bands
- UltraMic+ preamps on all mono inputs
- 12 monitor sends with 1-8 mono and 9-12 stereo
- Split outputs for easy connection to FOH mixing console
- 48V phantom power switchable on all channels
- Rackmountable external power supply

## TYPICAL SPECIFICATIONS

Frequency Response	Input to Output, medium gain 15Hz - 45kHz (< -3dB), 25Hz - 25kHz (< -1dB)
T.H.D.	Mic sens. -10dBu, faders @ unity, send @ max, +20dBu @ all outs . . . <0.005% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain) . . . . . -129dBu (150 $\Omega$ source) Output Noise (24 inputs routed, sends down, master @ unity) . . . < -80dBu
Crosstalk (@ 1kHz)	Channel Send Range . . . . . > 90dB Channel Fader Range . . . . . > 80dB Mute Attenuation . . . . . > 100dB Adjacent Output Isolation . . . . . > 90dB Typical CMRR at max gain @ 1kHz . . . . . > 85dB Typical CMRR at any gain @ 50Hz . . . . . > 65dB
Filters	HP (Inputs) . . . . . 100Hz, 18dB/octave HP (Outputs 1-8) . . . . . OFF - 160Hz HP (Outputs 9-12) . . . . . 60Hz
EQ	HF . . . . . 13kHz, +/-15dB Hi-Mid . . . . . 550Hz - 13kHz, +/-15dB Lo-Mid . . . . . 80Hz - 1.9kHz, +/-15dB LF . . . . . 80Hz, +/-15dB
Metering	3-colour 12-segment LED bargraphs display levels on all output channels (pre/post-EQ) Two 3-colour 12-segment LED master bargraphs
Power Consumption	175W
Operating Conditions	Temperature Range . . . . . -10°C to +30°C Humidity . . . . . 0% to 80%
Power Supply Unit	Type . . . . . DCP200

## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input . . . . . +28dBu max. FX Return Input . . . . . +22dBu max. Insert Return . . . . . +22dBu max. Outputs . . . . . +22dBu max., +4dBu nominal
Input & Output Impedances	Mic Input . . . . . 1.8k $\Omega$ All other Inputs . . . . . > 10k $\Omega$ Headphone Output . . . . . 75 $\Omega$ All other Outputs . . . . . < 75 $\Omega$

## DIMENSIONS & WEIGHT

Height	All frame sizes . . . . . 88mm (3.5")
Width	24 channel . . . . . 1201mm (47.3") 32 channel . . . . . 1455mm (57.3") 40 channel . . . . . 1709mm (67.3")
Depth	All frame sizes . . . . . 591mm (23.3")
Weight	24 channel . . . . . 31.4 kg (69.1 lbs) 32 channel . . . . . 37.0 kg (81.4 lbs) 40 channel . . . . . 45.4 kg (100.0 lbs)



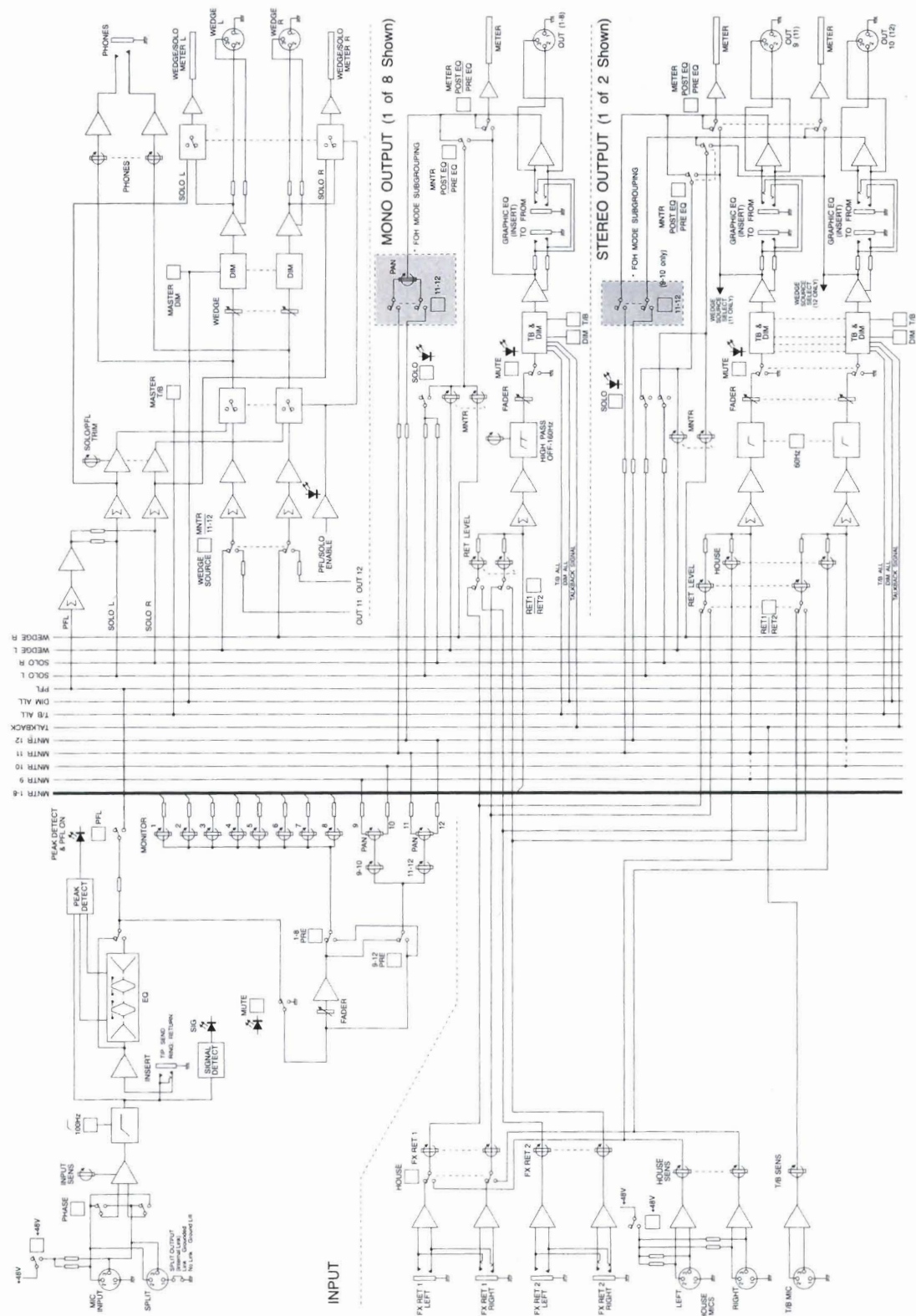
## SYSTEM BLOCK DIAGRAM

insole

eo  
console

- ..... +28dBu max.
- ..... +22dBu max.
- ..... +22dBu max.
- dBu max., +4dBu nominal
- ..... 1.8k $\Omega$
- ..... > 10k $\Omega$
- ..... 75 $\Omega$
- ..... < 75 $\Omega$

- ..... 88mm (3.5")
- ..... 1201mm (47.3")
- ..... 1455mm (57.3")
- ..... 1709mm (67.3")
- ..... 591mm (23.3")
- ..... 31.4 kg (69.1 lbs)
- ..... 37.0 kg (81.4 lbs)
- ..... 45.4 kg (100.0 lbs)



# Spirit Powerstation

SPiRiT P



- Powered mixing consoles
- Available in two versions: Powerstation 1200 and Powerstation 600
- 16/8 mono input channels (PS1200 / PS600)
- 24/16 inputs, including 2-track returns
- 2 x 600W / 300W power amplifier
- 2 stereo inputs channels
- High quality UltraMic™ preamps
- Studio-grade Lexicon dual effects processor built in



## TYPICAL SPECIFICATIONS

Frequency Response	Mic/Line Input to any Mixer Output . . . . . +/-1dB, 20Hz - 30kHz
T.H.D.	Mic, Line or Stereo Input to Main Outputs, +20dBu @ output . . . < 0.009%
Noise	Mic Input E.I.N. (maximum gain) . . . . . -129dBu (150Ω source) Aux Outputs (22Hz - 22kHz) . . . . . -83dBu Main Outputs (22Hz - 22kHz) . . . . . -80dBu
Crosstalk (@ 1kHz)	Fader Attenuation . . . . . 100dB Aux Send Attenuation . . . . . 80dB Stereo Separation . . . . . 70dB
Filter	HP . . . . . 100Hz, 18dB/octave
EQ	HF . . . . . 12kHz, +/-15dB MF . . . . . 1kHz, +/-15dB LF . . . . . 80Hz, +/-15dB
Metering	10-segment LED bargraph Accuracy relative to 0dB . . . . . +/-1dB
Power Amplifier Power Output	Powerstation 600 . . . . . 300W + 300W RMS into 4Ω 175W + 175W RMS into 8Ω Powerstation 1200 . . . . . 600W + 600W RMS into 4Ω 350W + 350W RMS into 8Ω
Operating Conditions	Temperature Range . . . . . -10°C to +30°C Humidity . . . . . 0% to 80%

## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input . . . . . +21dBu max. Line Input . . . . . > +30dBu max. Stereo Input . . . . . +26dBu max. Stereo & 2TK Return . . . . . > +30dBu max. Outputs . . . . . +22dBu max., +4dBu nominal
Input & Output Impedances	Mic Input . . . . . 1.8kΩ All other Inputs . . . . . > 10kΩ Headphone Output . . . . . 75Ω All other Outputs . . . . . 75Ω

## DIMENSIONS & WEIGHT

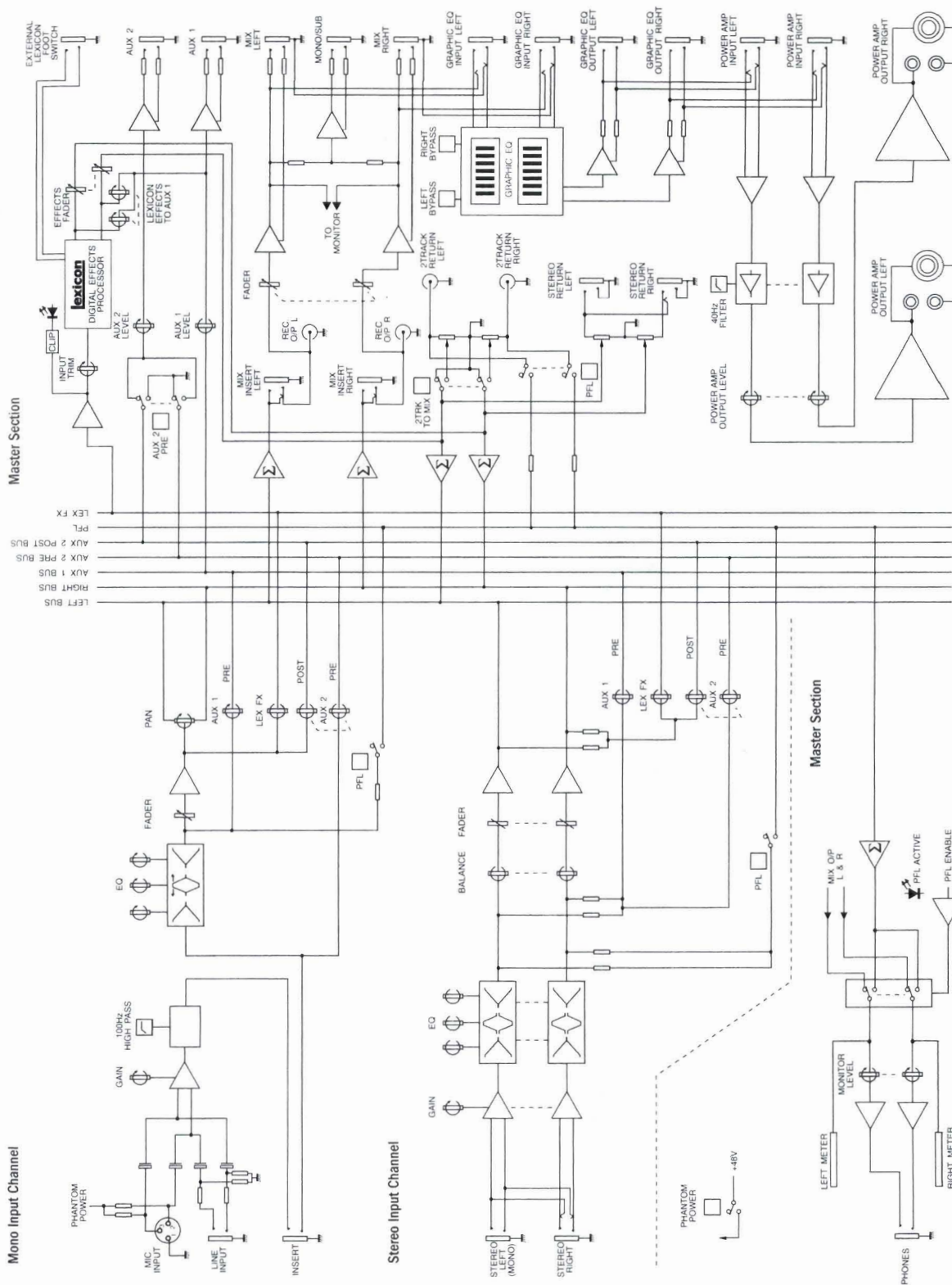
Height	Powerstation 600 / 1200 . . . . . 184mm (7.3")
Width	Powerstation 600 . . . . . 504mm (20.0") Powerstation 600 (side cheeks removed) . . . . . 438mm (17.2") Powerstation 1200 . . . . . 736mm (29.0") Powerstation 1200 (side cheeks removed) . . . . . 670mm (26.4")
Depth	Powerstation 600 / 1200 . . . . . 455mm (18.0")
Weight (packed)	Powerstation 600 . . . . . 21.4 kg (47.1 lbs) Powerstation 1200 . . . . . 29.6 kg (65.1 lbs)

## SYSTEM BLOCK





## SYSTEM BLOCK DIAGRAM



Mono Input Channel

Stereo Input Channel

Master Section

Powerstation 600



..... +21dBu max.  
..... > +30dBu max.  
..... +26dBu max.  
..... > +30dBu max.  
dBu max., +4dBu nominal

..... 1.8kΩ  
..... > 10kΩ  
..... 75Ω  
..... 75Ω

..... 184mm (7.3")

..... 504mm (20.0")  
..... 438mm (17.2")  
..... 736mm (29.0")  
..... 670mm (26.4")

..... 455mm (18.0")

..... 21.4 kg (47.1 lbs)  
..... 29.6 kg (65.1 lbs)



GigRac 1000st shown

## TYPICAL SPECIFICATIONS

Frequency Response	20Hz - 22kHz rel 1kHz Line in to Main out	+0.2/-2.5dB
T.H.D.	Mic I/P -20dB Pad 0dBu I/P at Main out (22Hz-22kHz)	0.15%
	Mic I/P to Amp Out @ full power (22Hz-22kHz)	0.15%
Noise	Mic Input E.I.N. (maximum gain)	<-123dBu (150Ω source)
	Main out (Level control mid)	<-78dBu
	Mon out (Level control mid)	<-80dBu
	Amp out	<-57dBu
Crosstalk / Isolation	Main cutoff	-80dB
	Mon cutoff	-80dB
Outputs	Max out Main / Mon	18dBu
	Power Output GigRac 300	300W ref 4Ω
	Power Output GigRac 600	2 x 300W ref 4Ω
	Power Output GigRac 1000st	2 x 500W ref 4Ω
Metering	10-segment LED bargraph displays mix output levels	
Power	Internal power supply	

## COMPARISON OF FEATURES

Feature	GigRac 300	GigRac 600	GigRac 1000st
Power Amp @ 4 Ohms	300W	2 x 300W	2 x 500W
Size (Uncased)	4U / 7 inches	4U / 7 inches	5U / 8.75 inches
Channel EQ	2 band fixed	2 band fixed	3 band fixed
Stereo	No	No	Yes
Pan Controls	No	No	Yes
Graphic EQ	1 x 7 Band	1 x 7 band	1 x Stereo 7 band
	Selectable to Main or Monitor path	Selectable to Main or Monitor path	1 x Mono 7 band for Monitor Mix
GigFX Presets	8	8	10
Output Meters	1 - Main Mix only	1 - Main Mix only	2 - Main L/R or Mono Main/Monitor Mixes
Playback Input	No	No	Yes
Standby Mute	No	No	Yes
Submix Input	Mono	Mono	Stereo
Mix output	Mono	Mono	Stereo

- Available in three models: GigRac 300, GigRac 600 & GigRac 1000st
- 8 channel mixer
- XLR, jack and phono inputs
- 2-band channel equalisation (GigRac 300/600)
- 3-band channel equalisation (GigRac 1000st)
- On-board 7-band graphic equalisation
- High quality digital effects programmes
- 10-segment precision LED metering
- Independent Main and Monitor mixes



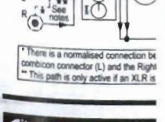
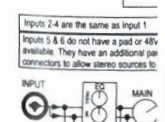
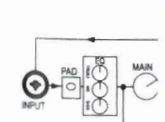
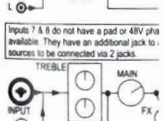
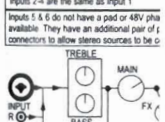
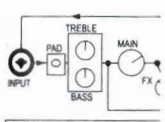
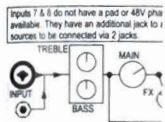
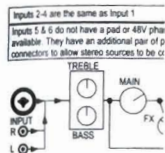
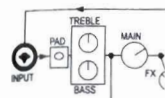
## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Max Input Mic (20dB pad) (Ch1-Ch4)	-3.5dBu
	Max Input Mic (20dB pad) (Ch5-Ch8)	-18dBu
	Max Input Line (20dB pad) (Ch1-Ch4)	10dBu
	Max Input Line (20dB pad) (Ch5-Ch8)	3dBu
	Max Mic Gain to Main Out (Ch1-Ch4)	60dBu
	Max Mic Gain to Main Out (Ch5-Ch8)	50dBu
Input & Output Impedances	Mic Input (Ch1-Ch4)	5.5kΩ
	Mic Input (Ch5-Ch8)	2.4kΩ
	Line Input (Ch1-Ch4)	30kΩ
	Line Input (Ch5-Ch8)	40kΩ

## DIMENSIONS & WEIGHT

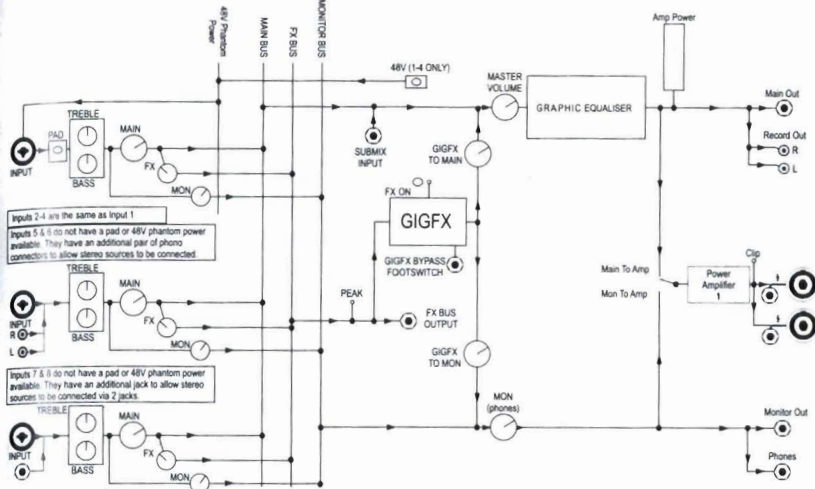
Height	GigRac 300/600	222mm (8.75")
	GigRac 1000st	267mm (10.5")
Width	GigRac 300/600	495mm (19.5")
	GigRac 1000st	495mm (19.5")
Depth	GigRac 300/600	322mm (12.7")
	GigRac 1000st	322mm (12.7")
Weight	GigRac 300	11.5 kg (25.3 lbs)
	GigRac 600	12.7 kg (27.9 lbs)
	GigRac 1000st	12.0 kg (26.4 lbs)

## SYSTEM BLOCK

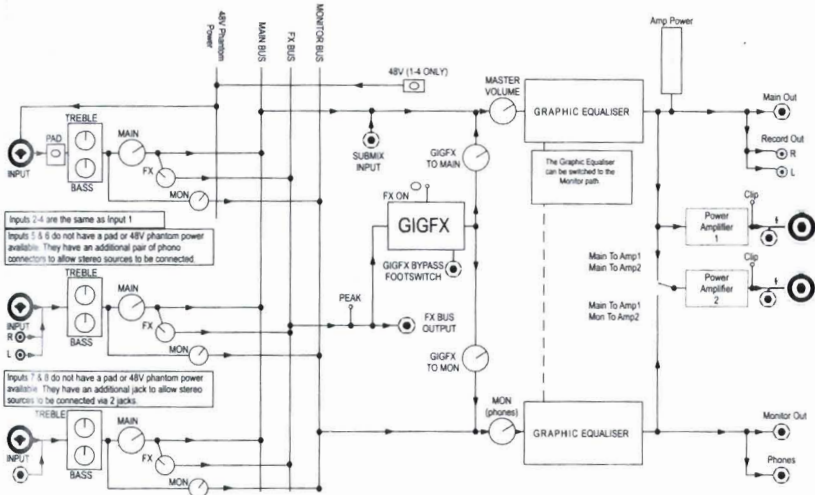




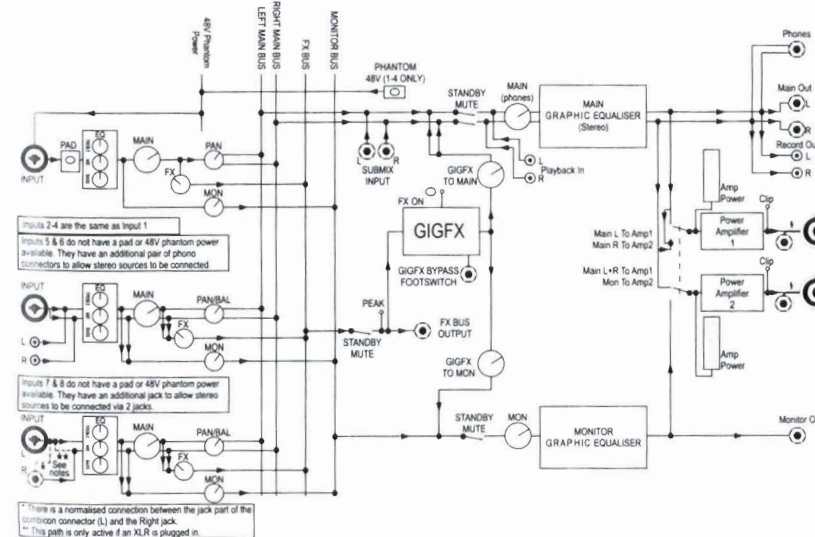
## SYSTEM BLOCK DIAGRAMS



GigRac 300



GigRac 600



GigRac 1000st

# Spirit Powerpad

SPRIT



- Compact powered mixer with a lightweight frame
- Integral 2-channel 30W power amp
- 10 inputs, including 4 mono mic/line inputs and 2 stereo inputs
- High-quality mic preamps with phantom power
- Stereo inputs feature switchable RIAA preamps for turntables
- Amplifier clip and thermal protection
- Custom-designed controls for accurate response

## SYSTEM BLOC

### TYPICAL SPECIFICATIONS

Frequency Response	Line Input to Master Mix	-1dB, 20Hz - 20kHz
T.H.D.	Mic Sensitivity -30dBu, +14dBu @ output	< 0.005%
Noise	Mic Input E.I.N.	-128.5dBu (150Ω source)
	Output	-84dBu
	Aux Out (inputs down)	-80dBu
	Mix (masters @ max)	-80dBu
	Noise (22Hz - 22kHz, ch. faders down, loudspeaker output rel. to full output):	
	Master faders up	< -98dB
	Master faders down	< -103dB
Crosstalk (@ 1kHz)	Fader Cut-off (rel 0 mark)	> 90dB
	Aux Send	> 90dB
	Pan Isolation	> 75dB
EQ	HF	12kHz, +/-15dB
	LF	80Hz, +/-15dB
Metering	PK and AVG LEDs	
Power Consumption	100W maximum	
Operating Conditions	Temperature Range	-10°C to +30°C
	Humidity	0% to 80%

### INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input	+14dBu max.
	Line Input	> +30dBu max.
	Outputs	+21dBu max., +4dBu nominal
Input & Output Impedances	Mic Input	1.8kΩ
	All other Inputs	> 10kΩ
	Headphone Output	75Ω
	All other Outputs	75Ω

### DIMENSIONS & WEIGHT

Height	102mm (4.0")
Width	248mm (9.8")
Depth	237mm (9.3")
Weight (packed)	4.96 kg (10.9 lbs)

48V

POWER ON

Master Section

AUX BUS  
RIGHT BUS  
LEFT BUS

LOW  
HIGH  
GAIN

+48V



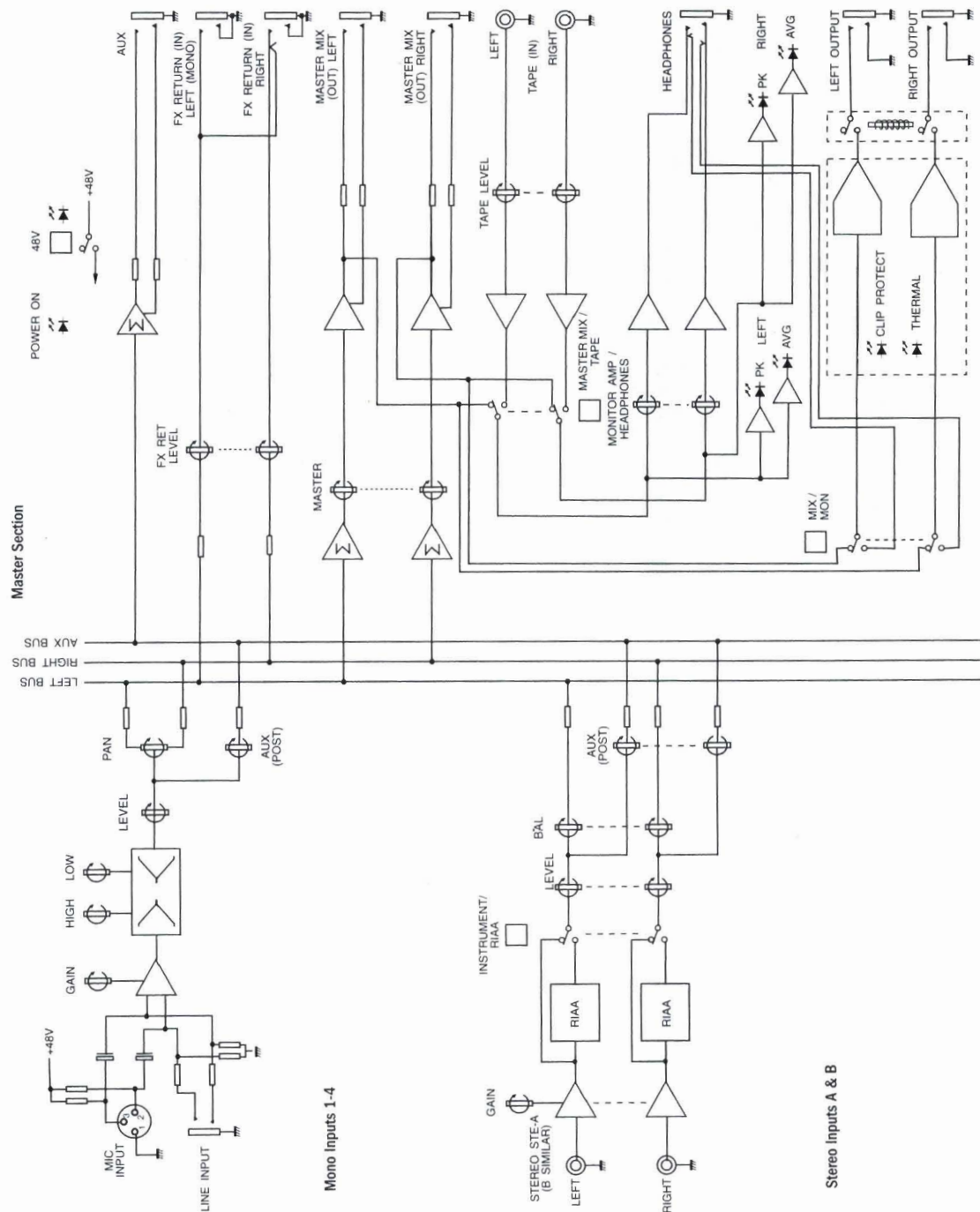
## SYSTEM BLOCK DIAGRAM

2 stereo inputs

turntables

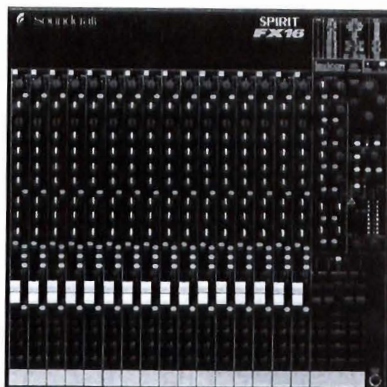
..... +14dBu max.  
..... > +30dBu max.  
u max., +4dBu nominal

..... 1.8k $\Omega$   
..... > 10k $\Omega$   
..... 75 $\Omega$   
..... 75 $\Omega$



# Spirit FX16

SPiRiT



## TYPICAL SPECIFICATIONS

Frequency Response	Mic / Line Input to any Output ..... +/-0.5dB, 20Hz - 30kHz
T.H.D.	Mic Sensitivity -30dBu, +14dBu @ Mix output ..... < 0.009% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain) ..... -129dBu (150Ω source) Aux, Mix and Masters (@ max, faders down) ..... < -80dBu
Crosstalk (@ 1kHz)	Channel Mute ..... > 96dB Fader Cut-off (rel 0 mark) ..... > 90dB Routing Isolation ..... > 90dB Aux Send Pots offness ..... > 84dB
EQ	HF ..... 12kHz, +/-15dB, Q = 1.5 MF ..... 240Hz - 6kHz, +/-15dB LF ..... 80Hz, +/-15dB, Q = 1.5
Metering	Two 3-colour 10-segment bargraph meters show mix, submix, control room or 2-track levels Peak reading (PPM)
Power Consumption	42W
Operating Conditions	Temperature Range ..... -10°C to +30°C Humidity ..... 0% to 80%

- 16 mic/line input mixer with Lexicon effects
- Powerful live and recording features
- 26 inputs, including 16 mono channels with high-quality UltraMic™ preamps
- 4 stereo returns
- Global 48V phantom power
- Studio-grade Lexicon dual effects processor built in
- 3-band EQ with swept mid
- 4-bus architecture with sub-group routable to mix
- Direct outputs for multitrack recording, individually switchable for pre- or post-fade operation
- 3 aux sends for effects or monitors

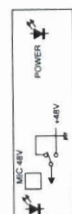
## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input ..... +22dBu max. Line Input ..... > +30dBu max. Stereo Return ..... > +30dBu max. Outputs ..... +22dBu max., +4dBu nominal
Input & Output Impedances	Mic Input ..... 1.8kΩ All other Inputs ..... > 10kΩ Headphone Output ..... 75Ω All other Outputs ..... 75Ω

## DIMENSIONS & WEIGHT

Height	148mm (5.83")
Width	Without rack brackets ..... 443.6mm (17.46") With rack brackets ..... 482.0mm (19")
Depth	442.0mm (17.42") Fits 10U rack space
Weight	Including power supply ..... 11.2 kg (24.6 lbs)

## SYSTEM BLOCK



POWER

48V

MIC 48V

MASTER

MASTER

MASTER

MASTER

MASTER

MASTER

MASTER

MASTER

MASTER

MASTER

MASTER

MASTER

MASTER

MASTER

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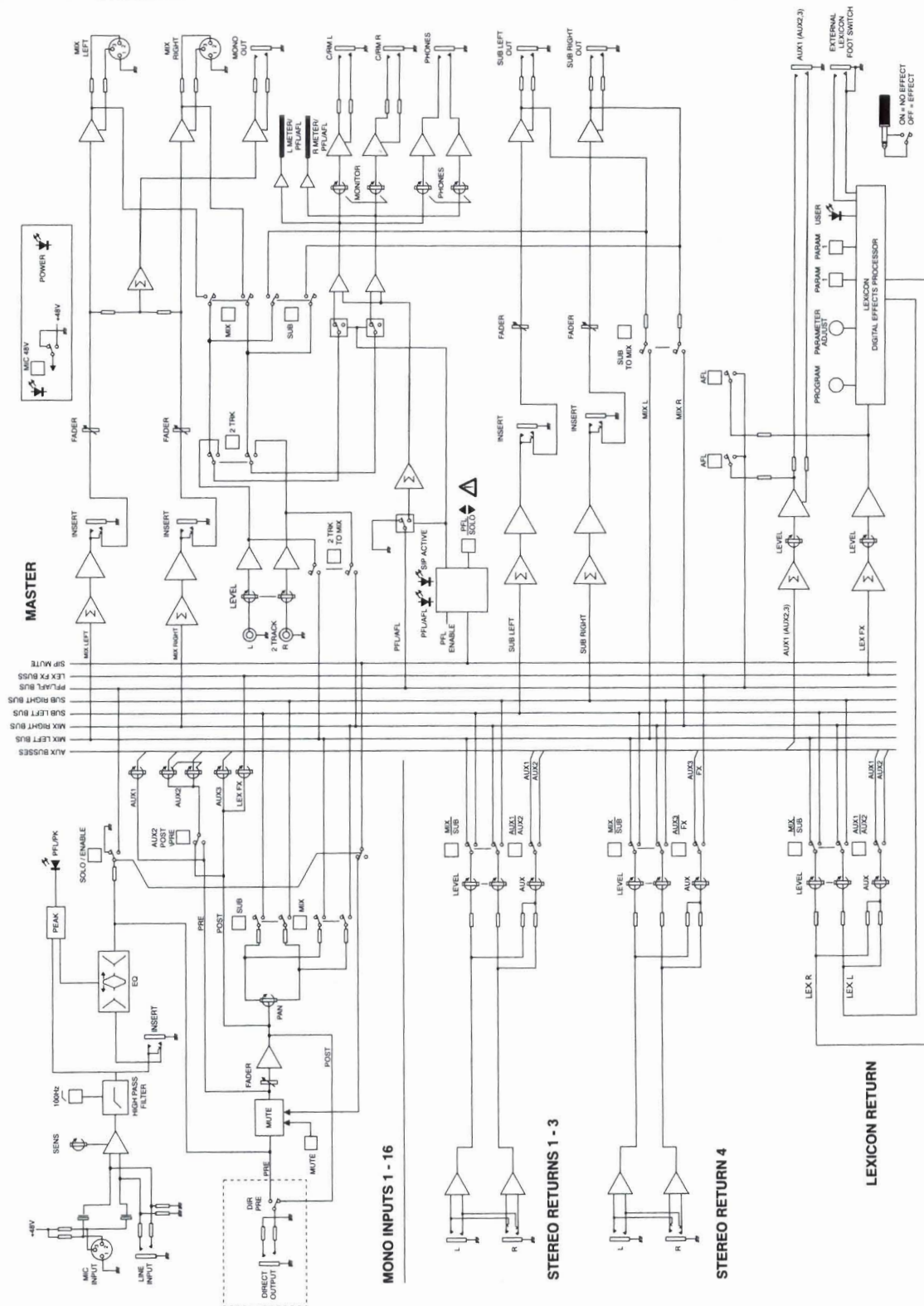
MASTER

MASTER

MASTER



## SYSTEM BLOCK DIAGRAM



quality UltraMic™

in

/ switchable for pre-

..... +22dBu max.  
 ..... > +30dBu max.  
 ..... > +30dBu max.  
 u max., +4dBu nominal

..... 1.8kΩ  
 ..... > 10kΩ  
 ..... 75Ω  
 ..... 75Ω

... 443.6mm (17.46")  
 ... 482.0mm (19")

... 11.2 kg (24.6 lbs)

# Spirit FX8

SPIRIT



- 8 mic/line input mixer with Lexicon effects
- 18 inputs, including 8 mono channels with high-quality UltraMic™ preamps
- 4 stereo inputs
- Global 48V phantom power
- Studio-grade Lexicon dual effects processor built in
- 3-band EQ with swept mid
- 4-bus architecture with sub-group routable to mix
- Direct outputs for multitrack recording, globally switchable for pre- or post-fade operation
- 3 auxes

## TYPICAL SPECIFICATIONS

Frequency Response	Mic/Line Input to any Output . . . . . +/-0.5dB, 20Hz - 20kHz
T.H.D.	Mic Sensitivity -30dBu, +14dBu @ Mix output . . . . . < 0.009% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain) . . . . . -129dBu (150Ω source) Aux, Mix and Masters (@ max, faders down) . . . . . < -85dBu
Crosstalk (@ 1kHz)	Channel Mute . . . . . > 96dB Fader Cut-off (rel 0 mark) . . . . . > 90dB Routing Isolation . . . . . > 90dB Aux Send Pots Offness . . . . . > 80dB
Filter	HP . . . . . 100Hz, 18dB/octave
EQ (Mono Inputs)	HF . . . . . 12kHz, +/-15dB, Q = 1.5 MF . . . . . 250Hz - 6kHz, +/-15dB, Q = 1.5 LF . . . . . 80Hz, +/-15dB, Q = 1.5
EQ (Stereo Inputs)	HF . . . . . 12kHz LF . . . . . 80Hz
Metering	Two 3-colour 10-segment bargraph meters show mix output levels Peak reading (PPM)
Power Consumption	36W
Operating Conditions	Temperature Range . . . . . -10°C to +30°C Humidity . . . . . 0% to 80%

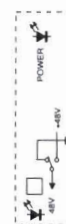
## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input . . . . . +22dBu max. Line Input . . . . . > +30dBu max. Stereo Return . . . . . > +30dBu max. Outputs . . . . . +22dBu max., +4dBu nominal
Input & Output Impedances	Mic Input . . . . . > 3kΩ All other Inputs . . . . . > 10kΩ Headphone Output . . . . . 75Ω All other Outputs . . . . . 75Ω

## DIMENSIONS & WEIGHT

Height	Without rack brackets . . . . . 106.1mm (4.18") With rack brackets . . . . . 96.8mm (3.81")
Width	Without rack brackets . . . . . 420.0mm (16.54") With rack brackets . . . . . 482.0mm (19")
Depth	Without rack brackets . . . . . 449.1mm (17.68") With rack brackets . . . . . 442.0mm (17.42"), fits 10U rack space
Weight	Including power supply . . . . . 8.0 kg (17.6 lbs)

## SYSTEM BLOCK

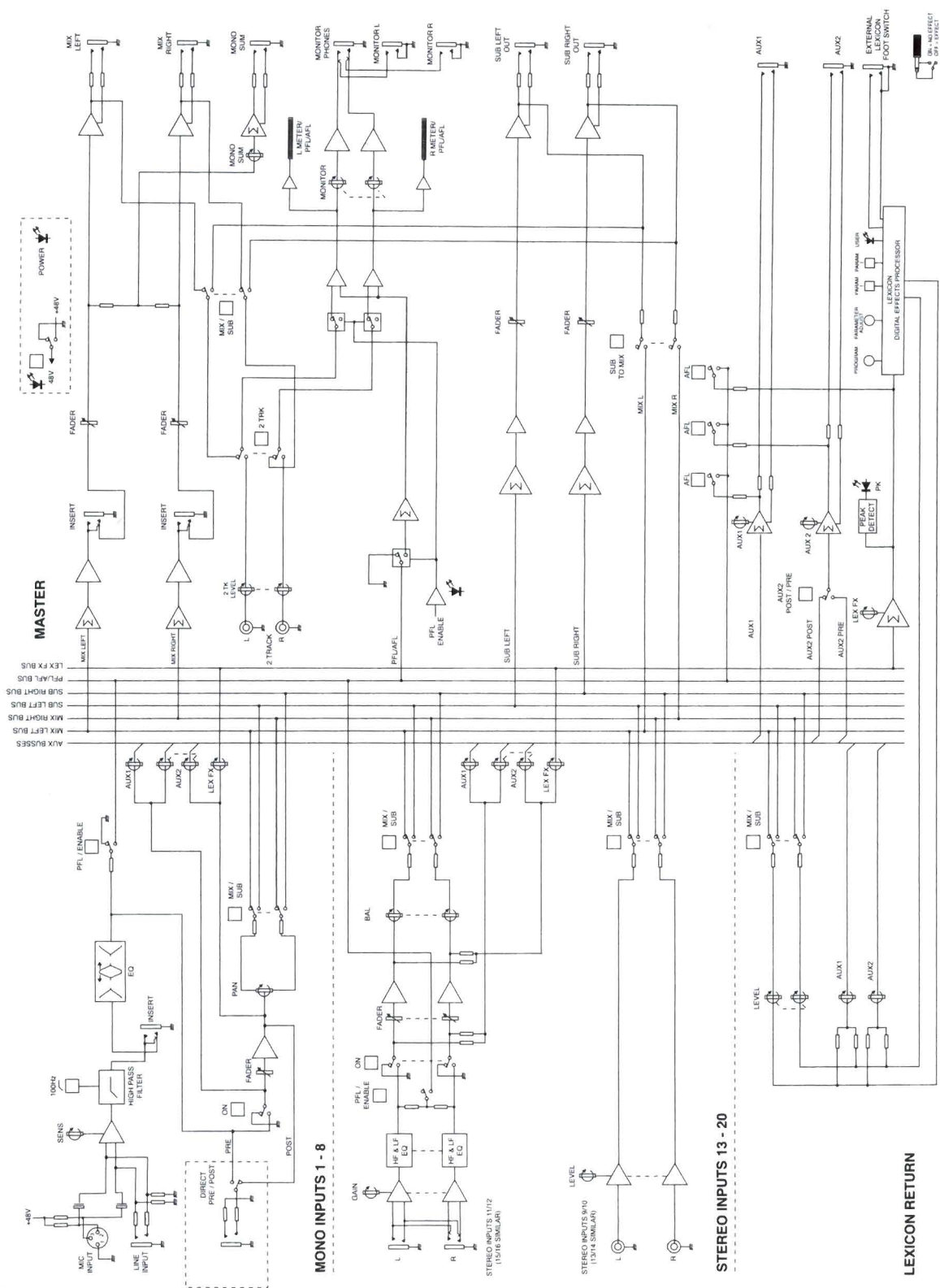


MASTER

- LEX FX BUS  
 - PFLAUX BUS  
 - SUB RIGHT BUS  
 - SUB LEFT BUS  
 - MIX RIGHT BUS  
 - MIX LEFT BUS  
 - AUX BUSES



## SYSTEM BLOCK DIAGRAM



quality UltraMic™

in

X  
switchable for

..... +22dBu max.  
..... > +30dBu max.  
..... > +30dBu max.  
Bu max., +4dBu nominal

..... > 3kΩ  
..... > 10kΩ  
..... 75Ω  
..... 75Ω

..... 106.1mm (4.18")  
..... 96.8mm (3.81")

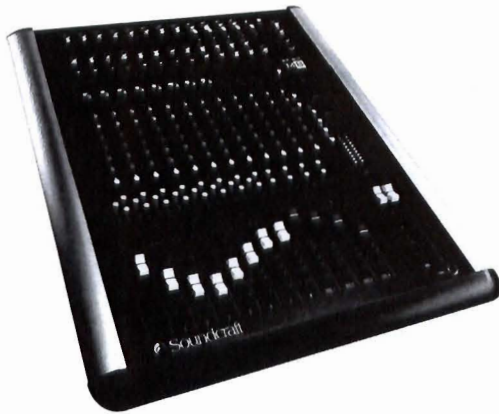
..... 420.0mm (16.54")  
..... 482.0mm (19")

..... 449.1mm (17.68")  
2", fits 10U rack space

..... 8.0 kg (17.6 lbs)

# Spirit M Series

SPiRiT



- 4, 8 or 12 mono inputs with 3-band EQ (swept mid)
- 4 stereo inputs
- Rugged chassis design, with integral rackmount capability
- 4 dedicated level-controlled FX returns with master level control
- 4 auxiliary sends – 2 pre-fade, 2 post-fade
- Pre- /post-fade switchable direct output on every mono input channel
- Signal detect and peak LEDs on all input channels
- S/PDIF digital output
- Global 48V phantom power
- 100mm faders throughout

## TYPICAL SPECIFICATIONS

Frequency Response	Mic / Line Input to any Output . . . . . +/-1dB, 20Hz – 20kHz
T.H.D.	Mic Sensitivity -30dBu, +20dBu @ all outputs . . . . . < 0.008% @ 1kHz
Noise	Mic Input E.I.N. (max. gain, 22Hz – 22kHz, unweighted) . . . . . -128dBu Aux and Mix Outputs (8 ch. routed, faders down, 22Hz – 22kHz, unweighted) . . . . . < -84dBu
Crosstalk	Channel Mute . . . . . < 90dB 20Hz – 10kHz, < 80dB 10kHz – 20kHz Fader Cut-Off (ref. Fader 0dB) . . . . . < 90dB 20Hz – 10kHz, < 80dB 10kHz – 20kHz Routing Isolation . . . . . < 90dB 20Hz – 10kHz, < 80dB 10kHz – 20kHz
Filter	HP . . . . . 100Hz, 18dB/octave
EQ	HF . . . . . 12kHz, +/-15dB MF . . . . . 240Hz – 6kHz, +/-15dB LF . . . . . 60Hz, +/-15dB
Operating Conditions	Temperature Range . . . . . -10°C to +30°C Humidity . . . . . 0% to 80%

## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Microphone Input Maximum Level . . . . . +12dBu Mono Channel Line Input Maximum Level . . . . . +38dBu Stereo Input Maximum Level . . . . . +21dBu Headphones Output (into 200Ω) . . . . . 150mW All Other Audio Outputs . . . . . +21dBu into 10kΩ
Input & Output Impedances	Mic Input . . . . . ~ 2kΩ Mono Channel Line Input . . . . . > 40kΩ Stereo Input (Stereo Mode) . . . . . > 30kΩ Stereo Returns . . . . . > 10kΩ Headphone Output . . . . . ~ 40Ω All Other Audio Outputs . . . . . 75Ω

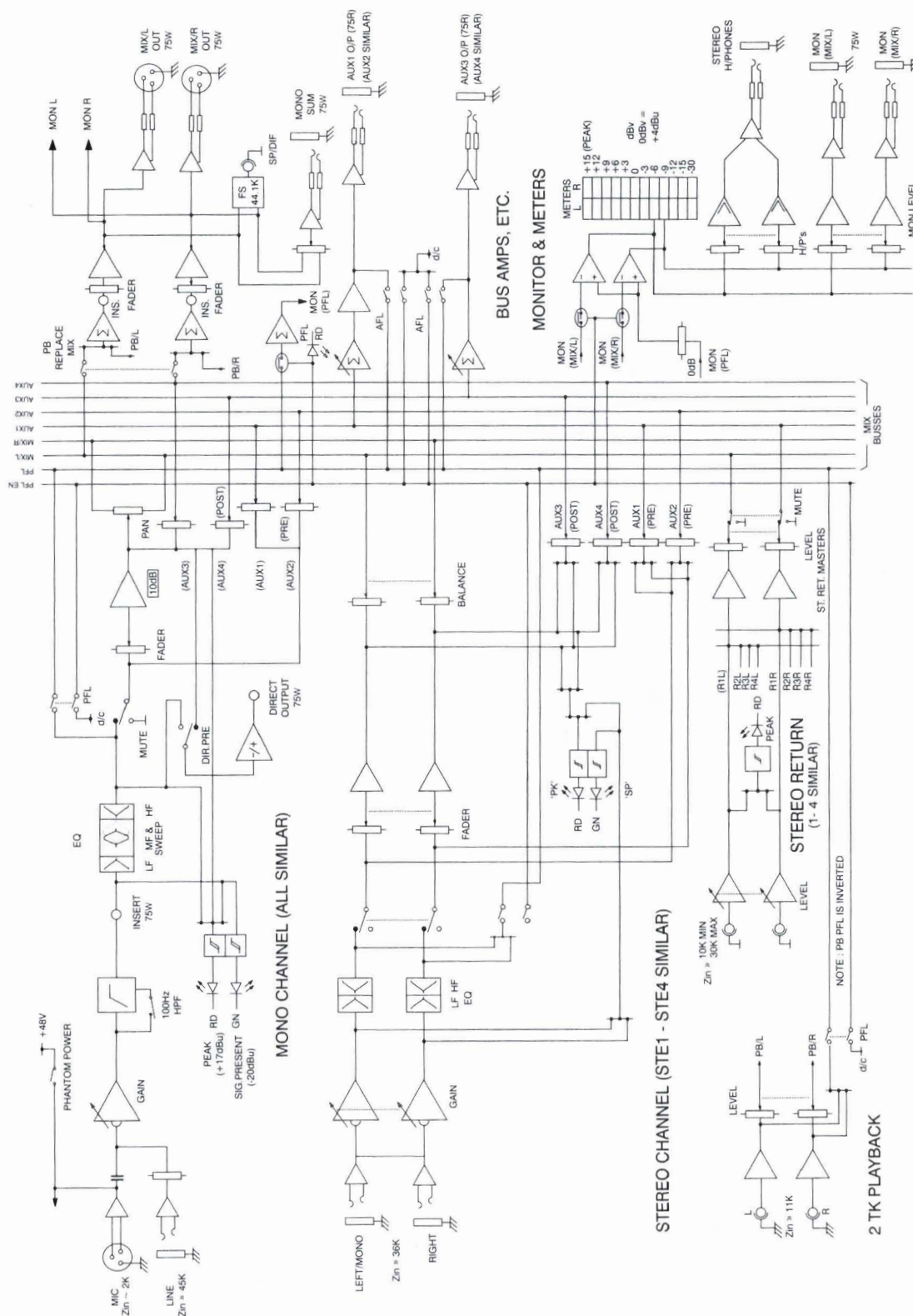
## DIMENSIONS & WEIGHT

Height	All frame sizes . . . . . 119mm (4.7")
Width	4 channel, with sides . . . . . 397mm (15.6") 4 channel, without sides . . . . . 373mm (14.7") 8 / 12 channel, with sides . . . . . 506mm (19.9") 8 / 12 channel, without sides (rackmount) . . . . . 483mm (19.0")
Depth	All frame sizes, with sides . . . . . 523mm (20.6") All frame sizes, without sides (rackmount) . . . . . 490mm (19.3") fits into 11U
Weight (incl. power supply)	4 channel . . . . . 6.75 kg (14.8 lbs) 8 channel . . . . . 8.25 kg (18.1 lbs) 12 channel . . . . . 8.55 kg (18.8 lbs)

## SYSTEM BLOC



SYSTEM BLOCK DIAGRAM



capability  
er level control  
mono input channel  
is

..... +12dBu  
..... +38dBu  
..... +21dBu  
..... 150mW  
..... +21dBu into 10kΩ  
..... ~ 2kΩ  
..... > 40kΩ  
..... > 30kΩ  
..... > 10kΩ  
..... ~ 40Ω  
..... 75Ω

..... 119mm (4.7")  
..... 397mm (15.6")  
..... 373mm (14.7")  
..... 506mm (19.9")  
..... 483mm (19.0")  
..... 523mm (20.6")  
..... 490mm (19.3")  
fits into 11U  
..... 6.75 kg (14.8 lbs)  
..... 8.25 kg (18.1 lbs)  
..... 8.55 kg (18.8 lbs)

# Spirit SX

SPIRIT



- Compact 20-input mixer for live and studio use
- 12 mono channels with high-quality UltraMic™ preamps
- 4 stereo inputs
- Global 48V phantom power
- Channel mute
- 3-band EQ with swept mid
- 4-bus architecture with sub-group routable to mix
- Direct outs for multitrack recording
- 3 auxes
- Rugged frame with integral carry handle

## TYPICAL SPECIFICATIONS

Frequency Response	Mic/Line Input to any Output . . . . . +/-1dB, 20Hz - 30kHz
T.H.D.	Mic Sensitivity -30dBu, +14dBu @ Mix output . . . . . < 0.006% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain) . . . . . -129dBu (150Ω source) Aux, Mix and Masters (@ max, faders down) . . . . . < -85dBu
Crosstalk (@ 1kHz)	Channel Mute . . . . . > 95dB Fader Cut-off (rel 0 mark) . . . . . > 90dB Routing Isolation . . . . . > 90dB Aux Send Pots Offness . . . . . > 85dB
Filter	HP . . . . . 100Hz, 18dB/octave
EQ (Mono Inputs)	HF . . . . . 12kHz, +/-15dB, Q = 1.5 MF . . . . . 250Hz - 6kHz, +/-15dB, Q = 1.5 LF . . . . . 80Hz, +/-15dB, Q = 1.5
EQ (Stereo Inputs)	HF . . . . . 12kHz LF . . . . . 80Hz
Metering	Two 3-colour 10-segment bargraph meters show mix output levels Peak reading (PPM)
Power Consumption	36W
Operating Conditions	Temperature Range . . . . . -10°C to +30°C Humidity . . . . . 0% to 80%

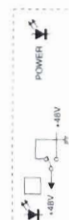
## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input . . . . . +22dBu max. Line Input . . . . . > +30dBu max. Stereo Input . . . . . > +30dBu max. Outputs . . . . . +22dBu max., +4dBu nominal
Input & Output Impedances	Mic Input . . . . . 1.8kΩ All other Inputs . . . . . > 10kΩ Headphone Output . . . . . 75Ω All other Outputs . . . . . 75Ω

## DIMENSIONS & WEIGHT

Height	Without rack brackets . . . . . 80.0mm (3.15") With rack brackets . . . . . 60.0mm (2.36")
Width	Without rack brackets . . . . . 479.0mm (18.86") With rack brackets . . . . . 483.0mm (19")
Depth	Without rack brackets . . . . . 511.5mm (20.14") With rack brackets . . . . . 443.5mm (17.46"), fits 10U rack space
Weight	Including power supply . . . . . 7.2 kg (15.8 lbs)

## SYSTEM BLOCK



MASTER

1. PFL/AUX BUS  
2. SUB RIGHT BUS  
3. SUB LEFT BUS  
4. MIX RIGHT BUS  
5. MIX LEFT BUS  
6. AUX BUSES

100Hz  
MIDLINE  
GAIN  
PAN

48V



## SYSTEM BLOCK DIAGRAM

amps

..... +22dBu max.  
 ..... > +30dBu max.  
 ..... > +30dBu max.  
 ..... max., +4dBu nominal

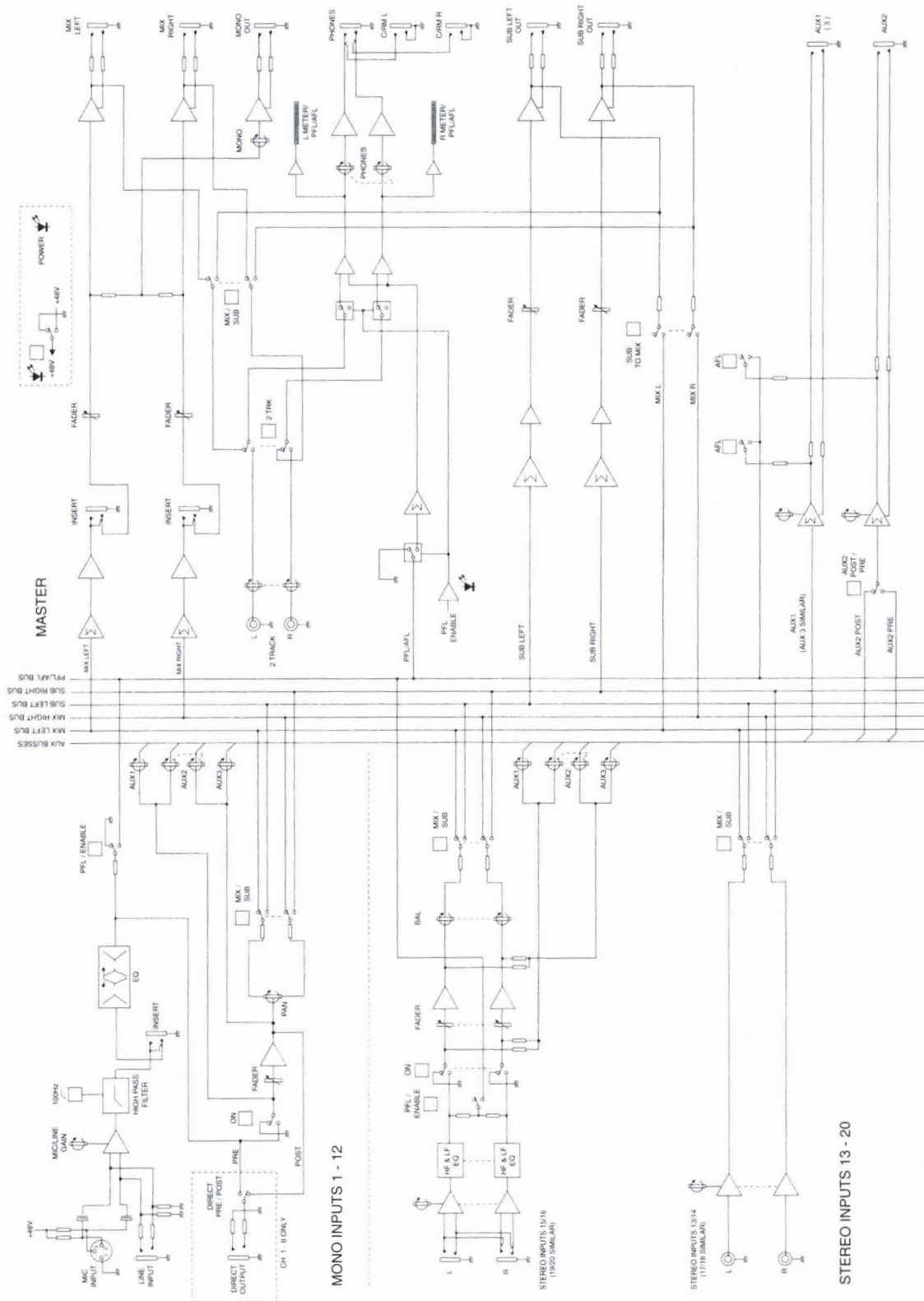
..... 1.8k $\Omega$   
 ..... > 10k $\Omega$   
 ..... 75 $\Omega$   
 ..... 75 $\Omega$

..... 80.0mm (3.15")  
 ..... 60.0mm (2.36")

..... 479.0mm (18.86")  
 ..... 483.0mm (19")

..... 511.5mm (20.14")  
 ..... fits 10U rack space

..... 7.2 kg (15.8 lbs)



MONO INPUTS 1 - 12

STEREO INPUTS 13 - 20

# Spirit E Series



Pictured : Spirit E12

## TYPICAL SPECIFICATIONS

Frequency Response	Mic/Line Input to any Output . . . . . +/-0.5dB, 20Hz - 20kHz
T.H.D.	Mic Sensitivity -30dBu, +14dBu @ Mix output . . . . . < 0.007% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain) . . . . . -128dBu (150Ω source) Aux, Mix and Masters (@ max, faders down) . . . . . < -85dBu
Crosstalk (@ 1kHz)	Channel Mute . . . . . > 96dB Fader Cut-off (rel +10 mark) . . . . . > 96dB Aux Send Pots Offness . . . . . > 86dB
EQ (Mono inputs)	HF . . . . . 12kHz, +/-15dB, Q = 1.5 MF . . . . . 140Hz - 3kHz, +/-15dB, Q = 1.5 LF . . . . . 80Hz, +/-15dB, Q = 1.5
EQ (Stereo inputs)	HF . . . . . 12kHz MF (ES only) . . . . . 600Hz LF . . . . . 80Hz
Power Consumption	E6=13W; E8=14.5W; E12=17W; ES=15.5W
Operating Conditions	Temperature Range . . . . . 0°C to +50°C

- 6, 8 and 12 mono channels with 2 stereo inputs
- ES model with 10 stereo channels and 4 mono inputs
- Precision, ultra-linear mic preamps
- High resolution, wide gain stages with masses of headroom
- 100mm high accuracy faders
- Integral switched mode low noise PSU design with universal input
- Professional insert points for external processing
- Intuitive solo system
- True professional +48v phantom power for condenser microphones
- Multi point signal channel status monitoring on all channels
- Built in, extensive metering for mix and solo system
- Precision 3-band EQ with swept mid (mono input)
- Easy conversion to rack mounting (cost option kit)

## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input . . . . . +17dBu max. Line Input . . . . . +30dBu max. Stereo Input . . . . . +30dBu max. Mix Output . . . . . +20dBu max. Headphones (@200Ω) . . . . . 300mW
Input & Output Impedances	Mic Input . . . . . 2.4kΩ Line Input . . . . . 11kΩ Stereo Input . . . . . 100kΩ Outputs . . . . . 75Ω

## DIMENSIONS & WEIGHT

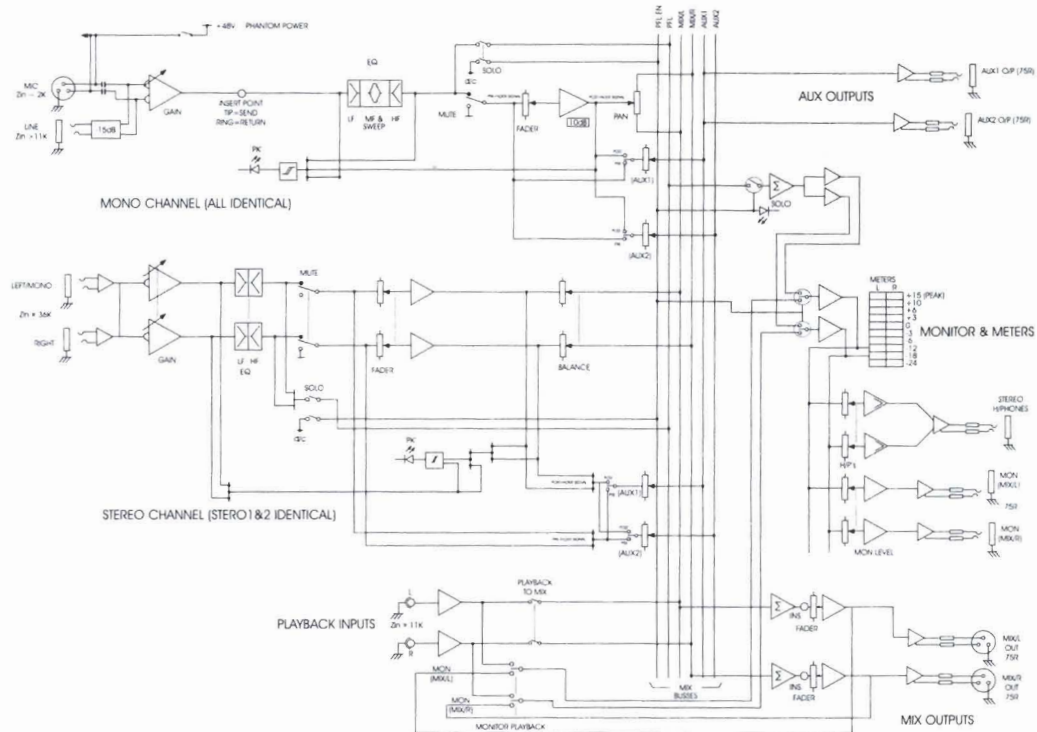
Height	All frame sizes . . . . . 95.11mm (3.74")
Width	E6 without rack brackets . . . . . 275.6mm (10.85") E6 with rack brackets . . . . . 283.6mm (11.17") E8 without rack brackets . . . . . 326.4mm (12.85") E8 with rack brackets . . . . . 334.4mm (13.17") E12/ES without rack brackets . . . . . 428mm (16.85") E12/ES with rack brackets . . . . . 436mm (17.17")
Depth	All frame sizes without rack brackets . . . . . 451.43mm (17.77") All frame sizes with rack brackets . . . . . 400.05mm (16.33")
Weight	E6 . . . . . 5.75 kg (12.68 lbs) E8 . . . . . 6.75 kg (14.88 lbs) E12/ES . . . . . 7.75 kg (17.09 lbs)

## SYSTEM BLO

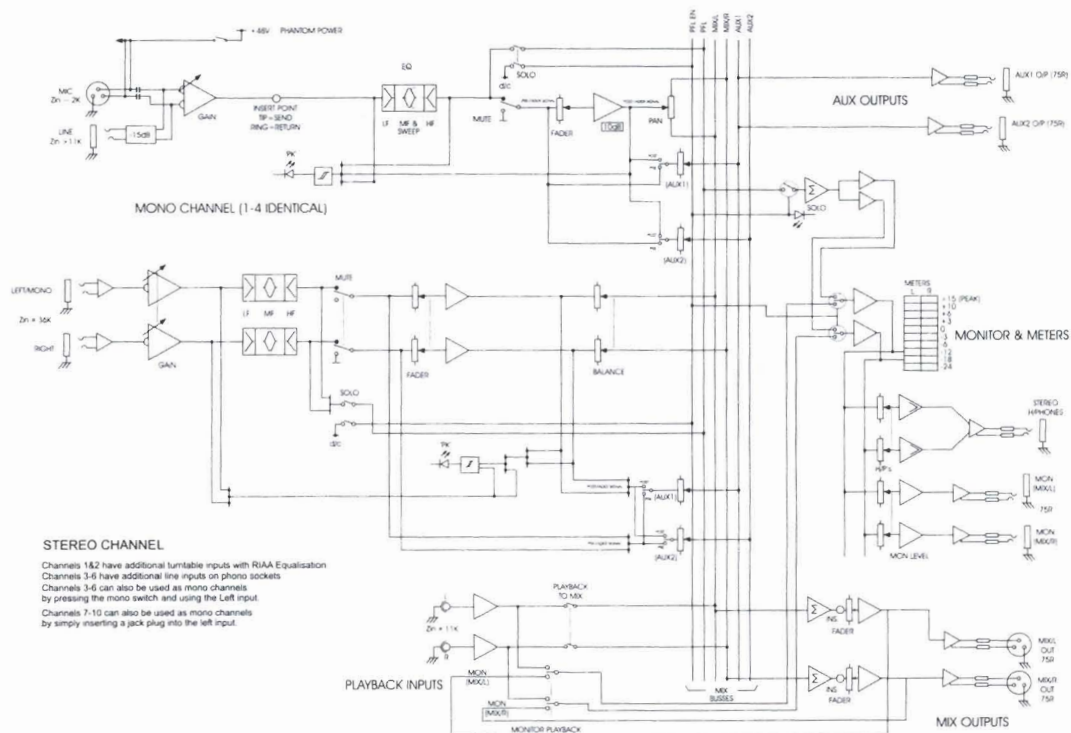
## SYSTEM BLO



## SYSTEM BLOCK DIAGRAM: E6, E8, E12



## SYSTEM BLOCK DIAGRAM: ES

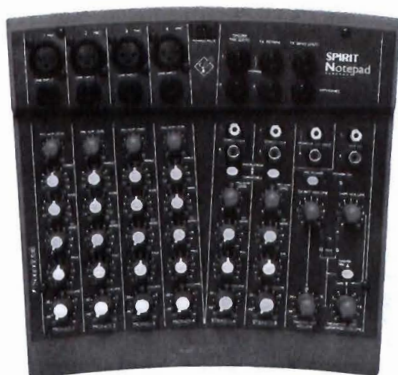


### STEREO CHANNEL

Channels 1&2 have additional turntable inputs with RIAA Equalisation  
 Channels 3-6 have additional line inputs on phono sockets  
 Channels 3-6 can also be used as mono channels  
 by pressing the mono switch and using the Left input  
 Channels 7-10 can also be used as mono channels  
 by simply inserting a jack plug into the left input.

# Spirit Notepad

SPIRIT



- Ultra-compact lightweight mixer
- 4 mono inputs and 2 stereo inputs
- Global 48V phantom power
- 2-band EQ on all 4 mono channels
- Post-fade aux send on every input
- 2-track tape return
- Separate mix and monitor outputs
- Custom designed rotary controls for precision control and accurate response
- Optional mic stand adaptor enables the Notepad to be fitted to a mic stand

## TYPICAL SPECIFICATIONS

Frequency Response	Mic/Line Input to any Output . . . . . +/-1dB, 20Hz - 20kHz
T.H.D.	Mic Sensitivity -30dBu, +14dBu @ Mix output . . . . . < 0.005% @ 1kHz
Noise	Mic Input E.I.N. (maximum gain) . . . . . -128.5dBu (150Ω source) Aux, Mix and Masters (@ max, faders down) . . . . . -80dBu
Crosstalk (@ 1kHz)	Channel Mute . . . . . > 90dB Routing Isolation . . . . . > 90dB
EQ	HF . . . . . Treble control LF . . . . . Bass control
Metering	Amber AVG (average) indicators display normal signal levels Red PK (Peak) indicators warn of overload
Power Consumption	20W
Operating Conditions	Temperature Range . . . . . -10°C to +30°C Humidity . . . . . 0% to 80%

## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input . . . . . +14dBu max. Line Input . . . . . > +30dBu max. Outputs . . . . . +21dBu max., +4dBu nominal
Input & Output Impedances	Mic Input . . . . . 1.8kΩ Line Input . . . . . 20kΩ Stereo Input . . . . . 20kΩ Headphone Output . . . . . 75Ω All other Outputs . . . . . 75Ω

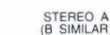
## DIMENSIONS & WEIGHT

Height	50.0mm (1.97")
Width	248mm (9.76")
Depth	237mm (9.33")
Weight	Including power supply . . . . . 1.9 kg (4.2 lbs)

## SYSTEM BLOCK



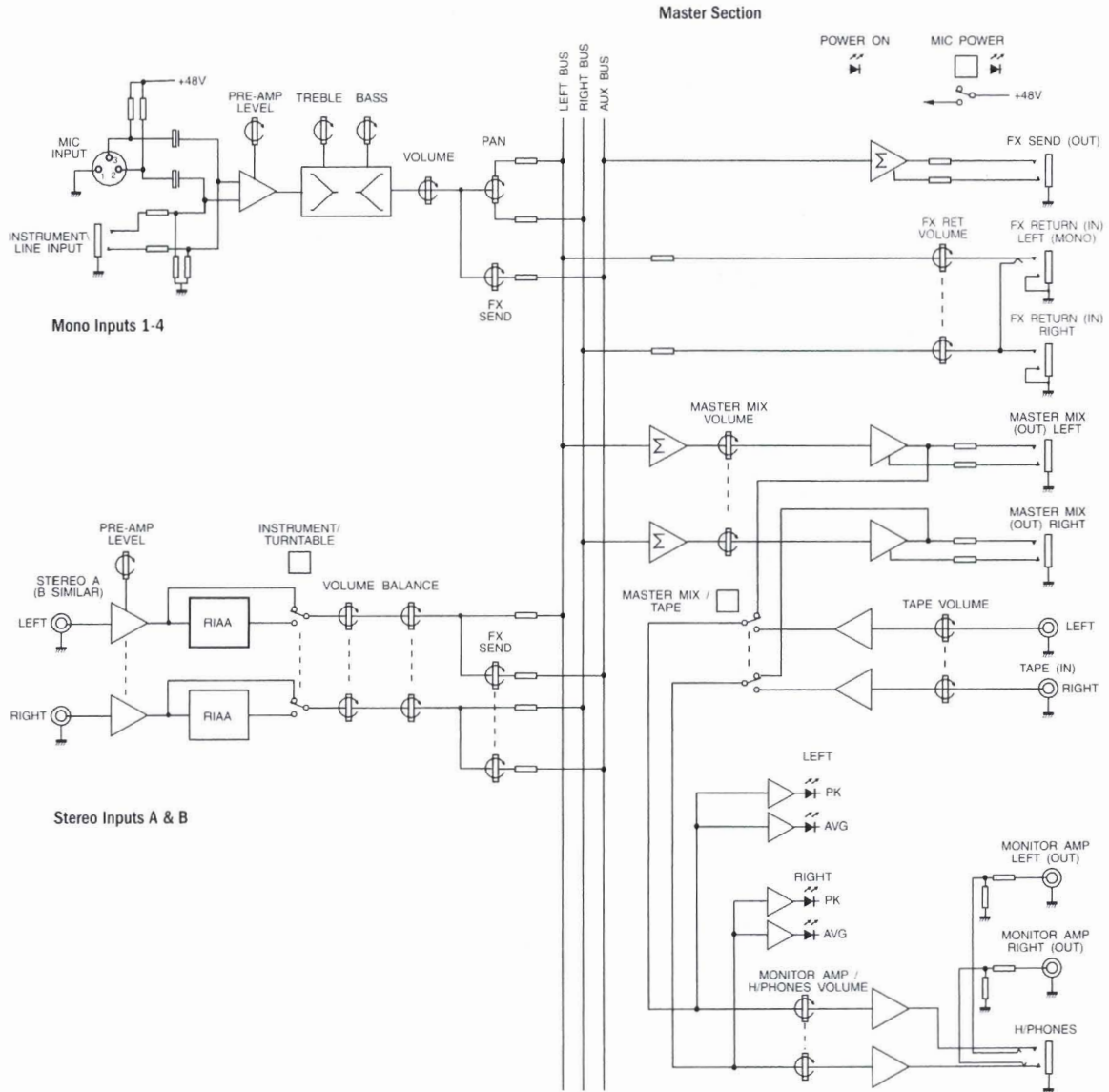
Mono In



Stereo



**SYSTEM BLOCK DIAGRAM**



..... +14dBu max.  
..... > +30dBu max.  
max., +4dBu nominal

..... 1.8kΩ  
..... 20kΩ  
..... 20kΩ  
..... 75Ω  
..... 75Ω

.....  
.....  
.....  
.....  
..... 1.9 kg (4.2 lbs)

# Ghost LE

Ghost



- Highly versatile 8-bus mixing console
- 24 and 32 channel sizes, with an optional 24 input channel expander
- Comprehensive 4-band EQ, with 2 fully parametric mid-ranges
- Low noise mic amp
- External tape machine transport control
- 10 auxiliary send busses
- Powerful EQ

## SYSTEM BLOCK

## TYPICAL SPECIFICATIONS

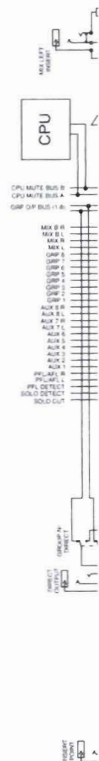
Frequency Response	Mic/Line Input to any Output (sens. @ 30dB) .. +0/-0.5dB, 20Hz - 20kHz
T.H.D.	Mic/Line to Direct Output (EQ out) .. < 0.002% @ 1kHz Mic/Line to Direct Output (EQ in) .. < 0.003% @ 1kHz Mix B to Direct Output (Swap pressed) .. < 0.002% @ 1kHz
Noise	Mic Input E.I.N. (sensitivity @ -60dBu) .. -128dBu measured at input point Mic Input E.I.N. (sensitivity @ -30dBu) .. -128dBu (150Ω source) Direct Output (22Hz-22kHz, mic sens. @ -10dB, ch. fader @ unity, EQ out) -95dBu Direct Output (22Hz-22kHz, mic sens. @ -10dB, ch. fader @ unity, EQ in) -93dBu Bus Noise (22Hz - 22kHz, Gp O/Ps 1-8, no ch. routed, faders down) .. -90dBu Bus Noise (22Hz - 22kHz, Gp O/Ps 1-8, 24 ch. routed, faders down) .. -80dBu Mix Output (no ch. routed, mix fader @ unity, ch. faders down) .. -90dBu Mix Output (24 ch. routed, mix fader @ unity, ch. faders down) .. -80dBu
Crosstalk (@ 1kHz)	Mic Input to Line Input .. -100dB Line Input to Mic Input .. -90dB Mix B to Channel .. -80dB Channel to Mix B .. -75dB Fader Attenuation .. -80dB
CMRR (@ 1kHz)	Mic Input, typical at sensitivity -30dBu .. -90dB Line Input, typical at sensitivity 0dBu .. -60dB
Filter	HP .. 100Hz, 18dB/octave
EQ	HF .. 12kHz, +/-15dB Hi-Mid .. 400Hz - 20kHz, +/-15dB, Q = 0.7 - 6 Lo-Mid .. 25Hz - 1.5kHz, +/-15dB, Q = 0.7 - 6 LF .. 60Hz, +/-15dB
Metering	Via a single LED that glows brighter as level increases and a peak LED Optional overbridge is available, with 12-segment LED bargraph metering
Power Consumption	450W
Operating Conditions	Temperature Range .. -10°C to +30°C Humidity .. 0% to 80%
Power Supply Unit	Type .. CPS275

## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input .. -60dBu to -8dBu Line Inputs .. -40dBu to +12dBu Group Outputs .. -10dBV / +4dBu Mix Outputs .. +4dBu
Input & Output Impedances	Mic Input .. 2kΩ All other Inputs .. > 10kΩ All Outputs .. < 75Ω

## DIMENSIONS & WEIGHT

Height	All frame sizes, with optional meterbridge .. 227.79mm (8.97")
Width	24 channel .. 1059.36mm (41.71") 32 channel .. 1303.20mm (51.31") 24 channel expander .. 815.52mm (32.11")
Depth	All frame sizes .. 780.71mm (30.74")
Weight	24 channel .. 44.0 kg (97 lbs) 32 channel .. 53.6 kg (118 lbs) 24 channel expander .. 33.0 kg (73 lbs)





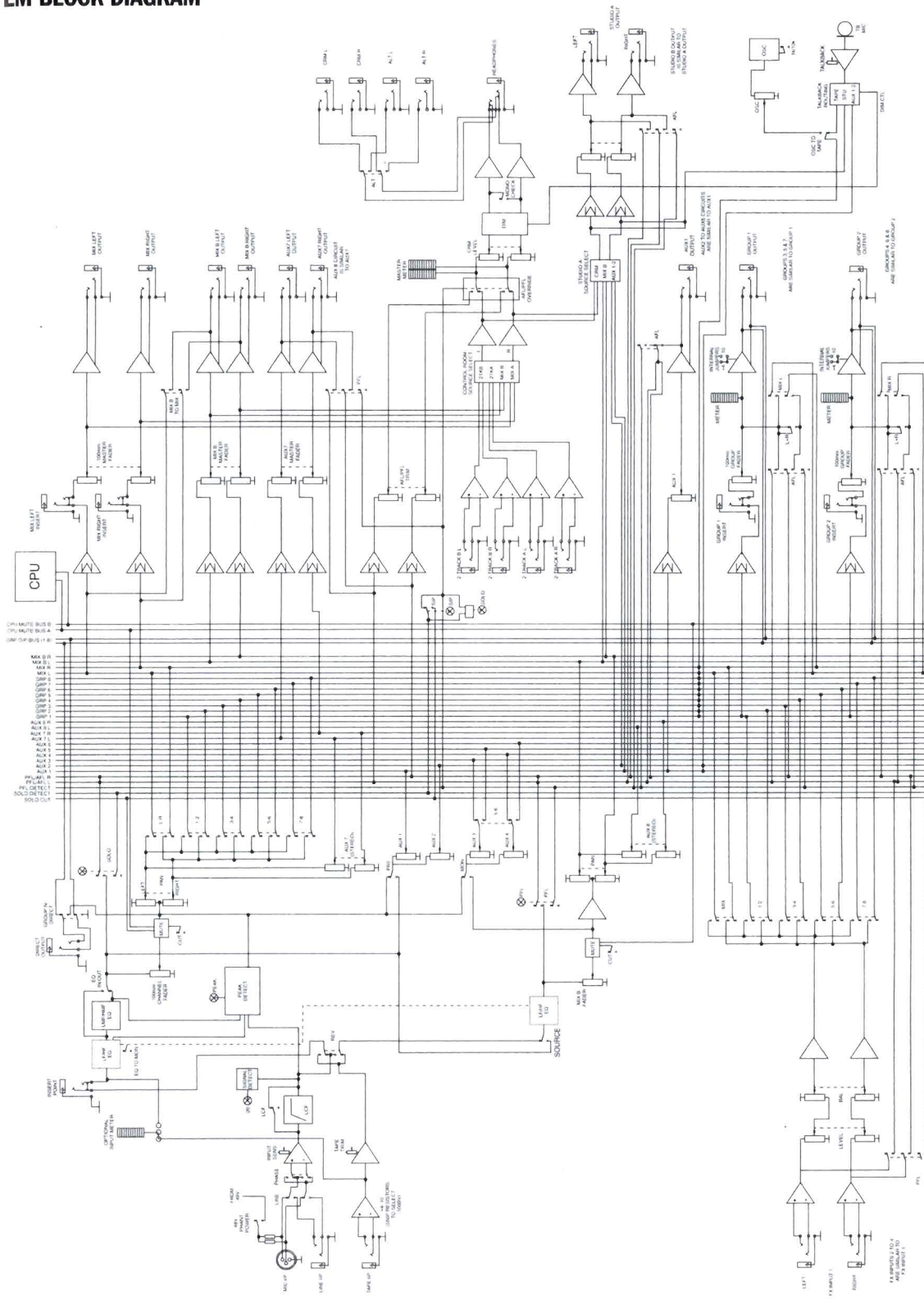
## SYSTEM BLOCK DIAGRAM

channel expander  
mid-ranges

... -60dBu to -8dBu  
... -40dBu to +12dBu  
... -10dBV / +4dBu  
... +4dBu

... 2kΩ  
... > 10kΩ  
... < 75Ω

227.79mm (8.97")  
509.36mm (41.71")  
303.20mm (51.31")  
815.52mm (32.11")  
780.71mm (30.74")  
... 44.0 kg (97 lbs)  
... 53.6 kg (118 lbs)  
... 33.0 kg (73 lbs)



# 328XD

# 328XD

DIGITAL



- Up to 42 inputs at mixdown
- 16 mic/line and 5 stereo inputs, 8 busses

## TYPICAL SPECIFICATIONS

Frequency Response	@ +4dBu into 600Ω (20Hz to 20kHz - Rel. 1kHz) . . . . .	+0/-0.5dB
Dynamic Range	Digital Input to Mix Output . . . . .	115dB
	Mic Input to Mix Output . . . . .	108dB
	Stereo Input to Mix Output . . . . .	108dB
T.H.D.	Mic Input to Mix Output (@+14dBu) . . . . .	< 0.005%, 1kHz @ 30dB gain
Hum and Noise	Mic Input E.I.N. . . . .	-127dBu (150Ω source)
Residual Output Noise (measured RMS over 20Hz-22kHz)	Mix Output (Mix fader down) . . . . .	-90dBu
	Mix Output (Mix fader @ unity, ch. fader down) . . . . .	< -90dBu
	Mix Output (Mix fader @ unity, 32 ch. routed, faders @ unity) . . . . .	< -78dBu
CMRR	Typical with max. gain @ 1kHz . . . . .	> 80dB
	Typical with any gain @ 50Hz . . . . .	> 70dB
Crosstalk	Adjacent Input Channels . . . . .	> 95dB
	Fader Attenuation . . . . .	> 95dB
	Channel Mute Attenuation . . . . .	> 95dB
	Pan Isolation . . . . .	> 88dB
Sampling Frequency	Internal . . . . .	44.1kHz / 48kHz
	External . . . . .	40kHz - 50kHz
A-D Conversion	Mic/Line Inputs . . . . .	24-bit, 128x oversampling
	Stereo Inputs . . . . .	24-bit, 128x oversampling
	2 Track Inputs . . . . .	24-bit, 128x oversampling
D-A Conversion	Mix Outputs . . . . .	24-bit, 128x oversampling
	Control Room Outputs . . . . .	24-bit, 128x oversampling
	Aux Outputs . . . . .	24-bit, 128x oversampling
Internal Processing	24-bit, 56-bit bussing	
Signal Latency	Channel Input to Mix Output @ 44.1kHz . . . . .	< 2.5ms
	Channel Input to Mix Output @ 48kHz . . . . .	< 2.5ms
Faders	Type . . . . .	100mm motorised and stabilised
	Resolution . . . . .	128 steps over 100mm range
Digital Output Dither	Wordlength . . . . .	16, 20, 24-bit
Power Consumption	150W	

- 16 digital tape returns in ADAT Optical and TDIF formats
- Integrated meterbank
- 3-band parametric EQ, 6 auxes and dynamics processing on every channel
- 2 high resolution Lexicon effects units
- Moving 100mm faders
- Snapshot and comprehensive dynamic automation
- Undo/redo, copy and paste functions
- Solo-in-place, AFL and PFL solos
- MIDI timecode input and output
- Machine control for all sequencers and many DTRs/HDRs
- 2 console linking - automatically configured
- Total status recall on power up
- Flexibility to route tape sends pre or post fader

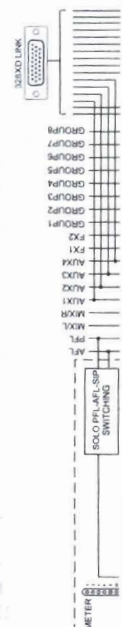
## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input . . . . .	+16dBu
	Balanced Inputs . . . . .	> +30dBu
	Balanced Outputs . . . . .	+18dBu
Input & Output Impedances	Mic Input . . . . .	2kΩ
	All other Inputs . . . . .	45kΩ
	Headphone Output . . . . .	40Ω
	All other Outputs . . . . .	< 75Ω

## DIMENSIONS & WEIGHT

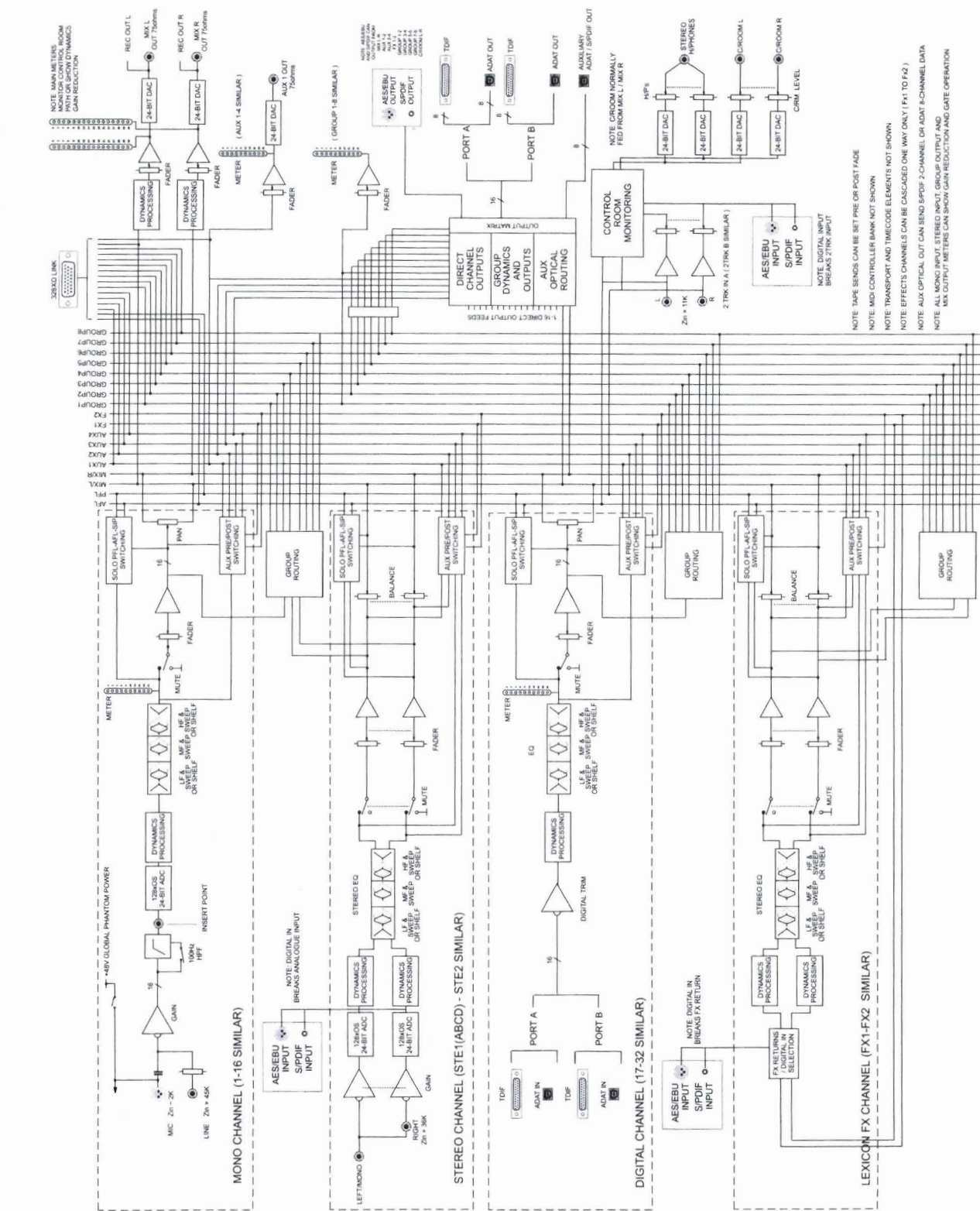
Height	160mm (6.3")
Width	715mm (28.2")
Depth	537mm (21.1")
Weight	14.4 kg (31.7 lbs)

## SYSTEM BLOCK





SYSTEM BLOCK DIAGRAM



# Compact

COM



- Desktop audio mixers
- Available in two versions: Compact 10 and Compact 4
- High quality Class A mic preamps
- Switchable +48V phantom power and indicator
- 3-band EQ on all input channels
- Switchable RIAA turntable equalisation
- Direct Injection for basses, guitars and keyboards
- Zero-latency monitoring
- Failsafe recording bus
- Dedicated artist and engineer headphone monitoring



## TYPICAL SPECIFICATIONS

Frequency Response	Mic/Line Input to any Output	+/-0.5dB, 20Hz - 20kHz
T.H.D.	Mic gain 30dB, Mix out, fader max @ 1kHz	< 0.007%
Crosstalk (@ 1kHz)	Channel level cut-off (rel +10 mark)	> 80dB
EQ	HF	12kHz, +/-12dB
	MF	600kHz, +/-12dB
	LF	60Hz, +/-12dB
Operating Conditions	Temperature Range	0°C to +50°C

## INPUT / OUTPUT SPECIFICATIONS

Input & Output Levels	Mic Input	+16dBu max.
	Line Input	+30dBu max.
	Stereo Input	+20dBu max.
	Headphones (@ 200Ω)	300mW
Input & Output Impedances	Mic Input	2kΩ
	Line Input	10kΩ
	Hi-Z Input	300kΩ
	Stereo Input	47kΩ
	Outputs	75Ω

## DIMENSIONS & WEIGHT

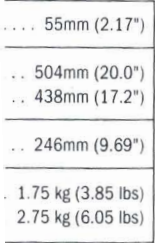
Height	Compact 4 / 10	55mm (2.17")
Width	Compact 4	504mm (20.0")
	Compact 10	438mm (17.2")
Depth	Compact 4 / 10	246mm (9.69")
Weight	Compact 4	1.75 kg (3.85 lbs)
	Compact 10	2.75 kg (6.05 lbs)

## SYSTEM BLOCK





## 4



# Live Comparison Chart

Front of House	Series FIVE	MH4 (dual purpose)	MH3 (dual purpose)	k3 Theatre	k2	Series TW0	k1
<b>Mono Inputs</b>	24-56ch	24-56ch	24-56ch	16-48ch	24-48ch	24-40ch	8-32ch 32c
<b>Sub Groups</b>	8 (individual sends)	8 (individual sends)	8 (individual sends)	8 (individual sends)	8 (paired sends)	8 (paired sends)	4 (paired sends)
<b>Master Outputs</b>	L/R + Mono	L/R + Mono	L/R + Mono	Stereo + Mono	Stereo + Mono	L/R + Mono	Stereo + Mono
<b>Matrix</b>	16 x 10 standard	20 x 8	12 x 4 standard	12 x 4 standard	11 x 4 standard	11 x 2	4 x 4 standard
<b>VCA Groups</b>	10	8	8	-	-	-	-
<b>Stereo Inputs</b>	4 standard, more optional	4 standard, more optional	4 standard, more optional	Optional	4	2	2 standard, more optional
<b>EQ</b>	4 band parametric	4 swept, 2 parametric	4 swept, 2 parametric	4 swept, 2 switched Q	2 fixed, 2 swept	2 fixed, 2 swept	2 fixed, 2 swept
<b>Filters</b>	Swept HPF, swept LPF	Swept HPF	Swept HPF	100Hz HPF	Swept HPF	Swept HPF	100Hz HPF
<b>Aux Sends</b>	12, 4 may be as 2 x stereo	12 Mono	12 Mono	8 Pre/Post switched in pairs	8 Pre/Post switched in pairs	8 Pre/Post switched in pairs	6 Pre/Post switched in pairs
<b>Mute Groups</b>	8	8	8	8	8	8	-
<b>FX Returns</b>	4 full stereo inputs	4 full stereo + 4 stereo with 4 band EQ	4 full stereo + 8 stereo with 3 band EQ	Optional stereo return per pair of groups	4 stereo + 4 full stereo	4	2 full stereo inputs
<b>Linking</b>	Audio + Logic	Audio + Logic	Audio + Logic	-	-	-	-
<b>Other Features</b>	LCR pan, Mute + MIDI snapshot	LCR pan, Mute + MIDI snapshot	LCR pan, Mute + MIDI snapshot	Mute + MIDI snapshot	Mute + MIDI snapshot	Mute + MIDI snapshot	Rack available, stereo modules available

Stage Monitor	FIVE Monitor (32-bus)	FIVE Monitor (24-bus)	MH4 (dual purpose)	MH3 (dual purpose)	SM20	Spirit Monitor 2	Powered Mix
<b>Mono Inputs</b>	40-56ch	44-60ch	24-56ch	24-56ch	32-56ch	24-40ch	<b>Mono Inputs</b>
<b>Monitor Sends</b>	34, all mono/stereo configurable	26, 9 mono/stereo configurable	8 mono + 4 stereo, or 12 mono + 2 stereo, or 16 mono	8 mono + 2 stereo	20, 7 mono/stereo configurable	12 (8 mono, 2 stereo)	<b>Stereo Inputs</b>
<b>Master Outputs</b>	Stereo Wedge + Stereo ALT SOLO	Stereo Wedge + Stereo ALT SOLO	Stereo Wedge	Stereo Wedge	Stereo Wedge	Stereo + Wedge	<b>EQ</b>
<b>Matrix</b>	Optional 23 x 16	Optional 23 x 12	20 x 8	12 x 4 (expandable to 12 x 8)	-	-	<b>Filters</b>
<b>VCA Groups</b>	8	8	8	8	-	-	<b>Aux Sends</b>
<b>Stereo Inputs</b>	Optional	Optional	4 standard, more optional	4 standard, more optional	-	-	<b>FX Returns</b>
<b>EQ</b>	4 band parametric	4 band parametric	4 swept, 2 parametric	4 swept, 2 parametric	4 swept, 2 parametric	2 fixed, 2 swept	<b>Other Features</b>
<b>Filters</b>	Swept HPF, swept LPF	Swept HPF, swept LPF	Swept HPF	Swept HPF	Swept HPF	100Hz HPF	
<b>Mute Groups</b>	8	8	8	8	8	-	
<b>FX Returns</b>	-	-	Line I/P to each group	Line I/P to each group	Line I/P to each group	2	
<b>Linking</b>	Audio + Logic	Audio + Logic	Audio + Logic	Audio + Logic	Audio + Logic	-	
<b>Other Features</b>	AFL selects page on BSS™ Varicurve or dbx DriveRack. ALT SOLO bus	AFL selects page on BSS™ Varicurve or dbx DriveRack. ALT SOLO bus	AFL selects page on BSS™ Varicurve or dbx DriveRack.	AFL selects page on BSS™ Varicurve or dbx DriveRack.	AFL selects page on BSS™ Varicurve or dbx DriveRack.	Stereo Ambience Mic Input	



# COMPARISON CHARTS

Series TWO	k1	324 Live	Spirit 8	GB4	Spirit Live 42	LX7ii
24-40ch	8-32ch	32ch (16 analogue +16 TDIF)	24-40ch	12-40ch	12-40ch	16-32ch
8 (paired sends)	4 (paired sends)	4 (individual sends)	8 (paired sends)	4 (paired sends)	4 (paired sends)	4 (paired sends)
L/R + Mono	Stereo + Mono	L/R + Mono	L/R	L/R + Mono	L/R	L/R + Mono
11 x 2	4 x 4 standard	4	2	7 x 4 standard	2	-
-	-	-	-	-	-	-
2	2 standard, more optional	2	2	2 standard	1 (12ch) 2 (16-40ch)	2
2 fixed, 2 swept	2 fixed, 2 swept	3 band fully parametric	2 fixed, 2 swept	2 fixed, 2 swept	2 fixed, 2 swept	2 fixed 2 swept
Swept HPF	100Hz HPF	100Hz HPF	100Hz HPF	100Hz HPF	100Hz HPF	100Hz HPF
8 Pre/Post switched in pairs	6 Pre/Post switched in pairs	6	6	8	6	6 (4 Pre/Post switched in pairs)
8	-	4	4	4	4	-
4	2 full stereo inputs	2	8	2, + 2 stereo inputs	4	2
-	-	-	-	-	-	-
Mute + MIDI snapshot	Rack available, stereo modules available	Total snapshot automation built-in Lexicon FX	Built-in LED input meterbridge	Integral PSU, 12-segment output metering	Optional 8ch expander (12-24ch only)	Integral PSU

Spirit Monitor 2	Powered Mixers	Spirit Powerstation	Spirit Powerpad	GigRac 300/600	GigRac 1000st
24-40ch	<b>Mono Inputs</b>	8ch & 16ch	4ch	8ch	8ch
12 (8 mono, 2 stereo)	<b>Stereo Inputs</b>	2 stereo inputs	2 stereo inputs	4 stereo inputs (mono summed)	4 stereo inputs
Stereo + Wedge	<b>EQ</b>	3 (swept mid), 2 band fixed on stereo inputs	2 fixed	2 fixed on inputs + 7-band graphic	3 fixed on inputs + 2 x 7-band graphic
-	<b>Filters</b>	100Hz HPF mono inputs	-	-	-
-	<b>Aux Sends</b>	3	1	1	1
-	<b>FX Returns</b>	1 stereo return	1 stereo return	1 stereo return (submix input)	1 stereo return (submix input)
2 fixed, 2 swept	<b>Other Features</b>	Powered, 2 x 300W, 2 x 600W, built in Lexicon FX, 600 has rackmount option	Powered, 2 x 30W, portable	GigRac 300: 300W, GigRac 600: 2 x 300W, portable, 8 built in FX presets	2 x 500W, portable, 10 built in FX presets
100Hz HPF					
-					
2					
-					
Stereo Ambience Mic Input					

# Multi-Purpose Comparison Chart

Record

	FX16	FX8	M Series	SX	E Series	Notepad
<b>Rack Mount</b>	Optional	Optional	4,8 & 12 Integral ( 4 uses rack extender )	Optional	6, 8, 12 & ES Integral (6 & 8 use rack extender )	No
<b>Frame Sizes</b>	16	8	4, 8, 12	12	6, 8, 12, ES (10 Stereo)	4
<b>Mono Channels (mic or line)</b>	16	8	4, 8, 12	12	6, 8, 12, ES (4 mono)	4
<b>Inserts</b>	Mono inputs, Sub-mix, Mix	Mono inputs, Sub-mix, Mix	Mono inputs, Mix	Mono inputs, Mix	Mono inputs, Mix	No
<b>Stereo Channels</b>	4 stereo returns	4 stereo inputs	4 stereo inputs	2 channels with 4 stereo inputs	2 stereo (E6, E8, E12) 10 stereo (ES)	2 stereo
<b>Groups</b>	2	2	-	2	-	-
<b>Direct Outs</b>	All mono channels	All mono channels	All mono channels	All mono channels	-	-
<b>EQ Bands (mono inputs)</b>	3 (swept mid)	3 (swept mid)	3 (swept mid)	3 (swept mid)	3 (swept mid)	2 fixed
<b>EQ Bands (stereo inputs)</b>	No	2 band fixed on stereo inputs	2 band fixed on stereo inputs	2 band fixed on stereo inputs	2 band (E6, E8, E12) 3 band (ES)	-
<b>Filters</b>	100Hz HPF mono inputs	100Hz HPF mono inputs	100Hz HPF mono inputs	100Hz HPF mono inputs	-	-
<b>Auxiliary Sends</b>	3 + Lexicon	2 + Lexicon	4 ( 2 pre, 2 post)	3	-	1
<b>Returns</b>	4 stereo returns	1 stereo return	4 stereo returns	Stereo Tape Return to Monitor	Stereo Tape Return to Mix/Monitor	1 stereo return
<b>Phantom Power</b>	Global	Global	Global	Global	Global	Global

## Typical Applications:

<b>Band/PA Setups</b>	✓	✓	✓	✓	✓	✓
<b>Small Venues, Conferences</b>	✓	✓	✓	✓	✓	✓
<b>Installed Sound</b>	✓	✓	✓	-	✓	-
<b>Schools, Houses of Worship</b>	✓	✓	✓	✓	✓	✓
<b>Studio Recording</b>	✓	✓	✓	✓	✓	-
<b>Video Pre/ Post-Production</b>	✓	✓	✓	✓	✓	✓
<b>Sub/Location Mixing</b>	✓	✓	✓	✓	✓	✓
<b>Multimedia</b>	✓	✓	✓	✓	✓	✓

Digital/Analogue

Frame Sizes

Meterbridge

EQ

Aux Sends

Groups

Mono Channels

Tape Returns

Stereo Channels

Dynamics

Expansion

Faders

MIDI Control

Transport Control

Phantom Power

Dynamic Automation



# Recording/Post-Production Comparison Chart

Notepad	Digital 328XD	Ghost LE	Compact
No	Digital/Analogue Audio	Digital	Analogue
4	Frame Sizes	32	24, 32
4	Meterbridge	Integral	Optional
No	EQ	3-band fully parametric	4-band (with 2 fully parametric mids)
2 stereo	Aux Sends	4 + 2 internal Lexicon FX	10
-	Groups	8	8
-	Mono Channels	16	24/32
2 fixed	Tape Returns	16	24/32
-	Stereo Channels / Returns	5	4
-	Dynamics	Gate/Compressor/Limiter on all inputs, groups and mix	-
1	Expansion	Can be linked with another Digital 328XD	24 Channel Expander available
1 stereo return	Faders	100mm	100mm
Global	MIDI Control	16 Faders, 16 Encoders, 32 switches	-
✓	Transport Controls	Yes	Yes
✓	Phantom Power	Yes	Yes
✓	Dynamic Automation	All Parameters	Mutes
✓			
✓			
✓			

# Digital Interface Units

## MIC/LINE



The Mic / Line interface converts the digital TDIF port on the rear of all Soundcraft digital consoles into 8 true mic/line inputs. It also provides 8 balanced outputs. The mic preamp is designed with exactly the same characteristics as those found on the Digital 328 and 324 Live.

## TYPICAL SPECIFICATIONS

Frequency Response	10Hz - 20kHz, +0/-0.5dB
T.H.D. @ 1kHz	0.05%
Crosstalk @ 1kHz	95dB
Dynamic Range	> 110dB
A/D Conversion	Mic/Line Inputs . . . . . 24-bit, 128x oversampling
D/A Conversion	All Outputs . . . . . 24-bit dithered by source when applicable Max Output Level . . . . . +18dBu
Phantom Power Capability	80mA maximum
Bit Depth	16/20/24 bits selectable from source
Sampling Rate	44kHz - 50kHz selectable from source
Mains Input Voltage Range	90 - 240 VAC @ 50/60Hz
Mains Fuse Rating	T1.0A L/250V
Dimensions	486mm (W) x 230mm (D) x 89mm (H) (2U)
Weight	4.25 kg (excluding packaging)
Power Supply	Integrated, 90 - 240V, 50/60Hz, 25W

- 8 balanced XLR inputs
- 8 balanced TRS inputs
- 8 insert points
- 8 balanced direct outputs
- 8 individual +48V phantom power switches
- 8 individual insert point switches
- 8 individual high pass filters (100Hz, 18dB per octave)
- 8 4-stage meters per channel
- 8 UltraMic+ preamplifiers

## AES/EBU



## TYPICAL SPE

Frequency Response
T.H.D. @ 1kHz
Bit Depth
Sampling Rate
Dimensions
Weight
Power Supply

## ANALOGUE



## TYPICAL SPE

Frequency Response
T.H.D. @ 1kHz
Crosstalk @ 1kHz
Dynamic Range
A/D Converter
D/A Converter
Sampling Frequency
Analogue I/P Level
Analogue O/P Level
T.H.D.
Dimensions
Weight
Power Supply



## AES/EBU



The AES/EBU interface converts the digital TDIF port on the rear of all Soundcraft Digital consoles into 4 AES/EBU inputs and outputs. Users of systems such as Digidesign Pro Tools™ can now interface directly with Soundcraft digital consoles. 8 outputs can be fed to units with AES/EBU inputs. The interface requires 1U half rack space and is shipped with power supply.

## TYPICAL SPECIFICATIONS

Frequency Response	10Hz - 20kHz, +0/-0.5dB
T.H.D. @ 1kHz	0.02%
Bit Depth	16/20/24 bits selectable from source
Sampling Rate	44 - 50kHz selectable from source
Dimensions	220mm (W) x 157mm (L) x 48mm (H)
Weight	0.8 kg without power supply
Power Supply	9V AC, 3.5W

## ANALOGUE



The analogue interface converts the digital TDIF port on the rear of all Soundcraft Digital consoles into 8 analogue Phono (RCA) inputs and 8 analogue Phono (RCA) outputs. All conversion is done using 20-bit technology. The unit allows a standard analogue multitrack to be connected, or to add 8 extra analogue inputs when you need to expand your operation. It will also allow the 8 TDIF outputs to be fed to units accepting analogue inputs. The interface requires 1U half rack space and is shipped with power supply.

## TYPICAL SPECIFICATIONS

Frequency Response	10Hz - 20kHz, +0/-0.5dB
T.H.D. @ 1kHz	0.02%
Crosstalk @ 1kHz	80dB
Dynamic Range	> 93dB
A/D Converter	20-bit, 64x oversampling
D/A Converter	20-bit, 64x oversampling
Sampling Frequency	Operates at console frequency
Analogue I/P Level	Maximum +10dBu
Analogue O/P Level	Maximum +10dBu
T.H.D.	0.008 @ 1kHz
Dimensions	220mm (W) x 157mm (L) x 48mm (H)
Weight	0.7 kg without power supply
Power Supply	9V AC, 3.5W

# Power Supply Units



CPS2000

All Soundcraft power supply units feature high quality components throughout. Features on the top-of-the-range CPS2000 include:

- Linear circuitry, using industry standard components
- Fewer voltage rails for greater simplicity and reliability
- Load is spread across several power devices on each rail, for optimum heat dissipation
- Voltage monitoring for world-wide use
- Front panel status LEDs indicating thermal shutdown and low mains power
- Heavy current wiring is all hard soldered, minimising number of connectors
- Built-in diode output linking allows two supplies to be paralleled for redundant operation, without a separate switcher box
- Heavy-duty Socapex® DC connectors on both the console and power supply
- Thermal sensing fan speed control for reduced noise and longer life

## TYPICAL SPECIFICATIONS

Power Supply Unit	CPS2000	CPS800	CPS450/B	CPS275	CPS150
Height	177.0mm (7.0"), 4U	132.5mm (5.2"), 3U	88.1mm (3.5"), 2U	88.1mm (3.5"), 2U	85.0mm (3.3")
Width at Front	482.6mm (19.0")	482.6mm (19.0")	482.6mm (19.0")	482.6mm (19.0")	287.0mm (11.3")
Width at Rear	440.0mm (17.3")	434.0mm (17.1")	424.0mm (16.7")	427.5mm (16.8")	287.0mm (11.3")
Depth	436.0mm (17.2")	371.5mm (14.6")	305.0mm (12.0")	350.5mm (13.8")	190.0mm (7.5")
Weight	30 kg (66 lbs)	16 kg (35 lbs)	13.2 kg (29 lbs)	11 kg (24.2 lbs)	5.2 kg (11.4 lbs)
Output Voltage	+/-17V, +48V, +8V	+/-17V, +48V, +8V	+/-17V, +48V, +24V, +8V	+/-17V, +48V, +5V	+/-17V, +48V
Power Consumption	980W	650W	400W	450W	100W
Rackmount (as standard)	Yes	Yes	Yes	Yes	No
Rackmount Kit Available	-	-	-	-	Yes

## TYPICAL SPECIFICATIONS

Power Supply Unit	DCP200	DCP125	DPS-1
Height	85.0mm (3.3")	85.0mm (3.3")	88.1mm (3.5"), 2U
Width at Front	375.0mm (14.8")	185.0mm (7.3")	482.6mm (19.0")
Width at Rear	375.0mm (14.8")	185.0mm (7.3")	431.0mm (17.0")
Depth	180.0mm (7.1")	210.0mm (8.3")	160.0mm (6.3")
Weight	7.8 kg (17.2 lbs)	4.2 kg (9.2 lbs)	3.0 kg (6.6 lbs)
Output Voltage	+/-17V, +48V, 12VAC	+/-17V	+/-15V, +48V, +5V, +8V
Power Consumption	175W	99W	80W
Rackmount (as standard)	No	No	Yes
Rackmount Kit Available	Yes	Yes	-





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